

**BISMILLAH EDUCATIONAL
COMPLEX
[FORCES COACHING ACADEMY & SCHOOL
SYSTEM]**

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MATHEMATICS

Comprehensive Study Notes & MCQs

**FOR 8TH CLASS PAF & MILITARY COLLEGE
ADMISSION**

**For notes on other subjects and Intelligence Tests,
please contact on WhatsApp.**

Mathematics Syllabus

Topics Overview

- 1. Rational Numbers and Decimal Numbers
- 2. Simplification
- 3. Sets
- 4. Rate, Ratio and Proportion
- 5. Financial Arithmetic
- 6. Squares and Square Roots
- 7. Number Sequence and Patterns
- 8. Algebraic Expressions
- 9. Linear Equation
- 10. Distance, Speed and Time
- 11. Perimeter and Area
- 12. Practical Geometry
- 13. Angle Properties of Polygons
- 14. Transformation
- 15. Statistics
- 16. Probability

Topic 1: Rational Numbers and Decimal Numbers

Explanation: Rational numbers are numbers that can be expressed as a fraction p/q , where q is not zero. Decimal numbers are fractions represented with a decimal point.

Solved Examples:

- $1/2 + 1/4 = 3/4$
- 0.75 as a fraction is $3/4$
- $2/3 \times 3/4 = 1/2$
- 5 can be written as $5/1$, so it is rational.

Level 1 (Standard)

- Q1: What is $2/2 + 0$? A) 0 B) 2 C) $2/2$ D) 1
- Q2: What is $3/3 + 0$? A) 2 B) 0 C) 1 D) $3/3$
- Q3: What is $1/2 + 0$? A) 0 B) $2/1$ C) 1 D) $1/2$
- Q4: What is $9/2 + 0$? A) $9/2$ B) 1 C) $2/9$ D) 0
- Q5: What is $4/9 + 0$? A) 0 B) 1 C) $4/9$ D) $9/4$
- Q6: What is $7/7 + 0$? A) 0 B) 2 C) $7/7$ D) 1
- Q7: What is $6/3 + 0$? A) $3/6$ B) 1 C) 0 D) $6/3$
- Q8: What is $6/7 + 0$? A) 1 B) 0 C) $6/7$ D) $7/6$
- Q9: What is $9/3 + 0$? A) $3/9$ B) 0 C) $9/3$ D) 1
- Q10: What is $10/7 + 0$? A) 1 B) $10/7$ C) $7/10$ D) 0
- Q11: What is $1/5 + 0$? A) 0 B) 1 C) $1/5$ D) $5/1$
- Q12: What is $2/8 + 0$? A) $2/8$ B) 1 C) 0 D) $8/2$
- Q13: What is $3/7 + 0$? A) 1 B) 0 C) $3/7$ D) $7/3$
- Q14: What is $2/4 + 0$? A) $4/2$ B) 1 C) $2/4$ D) 0
- Q15: What is $7/6 + 0$? A) $7/6$ B) 1 C) $6/7$ D) 0
- Q16: What is $1/5 + 0$? A) 1 B) $5/1$ C) 0 D) $1/5$
- Q17: What is $5/3 + 0$? A) $5/3$ B) 1 C) $3/5$ D) 0
- Q18: What is $4/9 + 0$? A) $4/9$ B) 0 C) $9/4$ D) 1
- Q19: What is $3/6 + 0$? A) $6/3$ B) 1 C) $3/6$ D) 0
- Q20: What is $10/8 + 0$? A) $8/10$ B) $10/8$ C) 0 D) 1
- Q21: What is $3/9 + 0$? A) 0 B) $9/3$ C) 1 D) $3/9$
- Q22: What is $3/4 + 0$? A) 0 B) $3/4$ C) $4/3$ D) 1
- Q23: What is $7/8 + 0$? A) $7/8$ B) 0 C) $8/7$ D) 1
- Q24: What is $9/2 + 0$? A) 1 B) 0 C) $2/9$ D) $9/2$

Q25: What is $6/3 + 0$? A) 1 B) $6/3$ C) 0 D) $3/6$ Q26: What is $8/2 + 0$? A) 0 B) $8/2$ C) 1 D) $2/8$ Q27: What is $9/3 + 0$? A) 0 B) $9/3$ C) 1 D) $3/9$ Q28: What is $3/7 + 0$? A) 1 B) $3/7$ C) $7/3$ D) 0Q29: What is $10/7 + 0$? A) 0 B) $7/10$ C) $10/7$ D) 1Q30: What is $6/6 + 0$? A) 2 B) 1 C) $6/6$ D) 0Q31: What is $10/3 + 0$? A) 1 B) 0 C) $3/10$ D) $10/3$ Q32: What is $2/4 + 0$? A) $2/4$ B) 1 C) $4/2$ D) 0Q33: What is $9/4 + 0$? A) $9/4$ B) 0 C) 1 D) $4/9$ Q34: What is $4/5 + 0$? A) $4/5$ B) 1 C) 0 D) $5/4$ Q35: What is $8/9 + 0$? A) 0 B) $9/8$ C) 1 D) $8/9$ Q36: What is $2/7 + 0$? A) 0 B) 1 C) $7/2$ D) $2/7$ Q37: What is $10/5 + 0$? A) 0 B) $5/10$ C) 1 D) $10/5$ Q38: What is $4/3 + 0$? A) $3/4$ B) 1 C) 0 D) $4/3$ Q39: What is $9/5 + 0$? A) $9/5$ B) 0 C) 1 D) $5/9$ Q40: What is $4/4 + 0$? A) 1 B) 0 C) $4/4$ D) 2Q41: What is $7/5 + 0$? A) $5/7$ B) 0 C) 1 D) $7/5$ Q42: What is $6/8 + 0$? A) $8/6$ B) $6/8$ C) 0 D) 1Q43: What is $2/2 + 0$? A) $2/2$ B) 0 C) 1 D) 2Q44: What is $2/5 + 0$? A) $5/2$ B) 1 C) $2/5$ D) 0Q45: What is $3/8 + 0$? A) $3/8$ B) $8/3$ C) 1 D) 0Q46: What is $4/3 + 0$? A) 0 B) $4/3$ C) $3/4$ D) 1Q47: What is $1/2 + 0$? A) 0 B) $2/1$ C) 1 D) $1/2$ Q48: What is $7/9 + 0$? A) $9/7$ B) 0 C) $7/9$ D) 1Q49: What is $1/4 + 0$? A) $4/1$ B) 0 C) $1/4$ D) 1Q50: What is $5/9 + 0$? A) $5/9$ B) 1 C) 0 D) $9/5$ Q51: What is $3/5 + 0$? A) 0 B) 1 C) $3/5$ D) $5/3$ Q52: What is $10/2 + 0$? A) 0 B) 1 C) $10/2$ D) $2/10$ Q53: What is $10/9 + 0$? A) 1 B) $9/10$ C) $10/9$ D) 0Q54: What is $3/3 + 0$? A) 0 B) 2 C) 1 D) $3/3$ Q55: What is $7/3 + 0$? A) 1 B) $7/3$ C) $3/7$ D) 0Q56: What is $10/3 + 0$? A) $10/3$ B) 0 C) $3/10$ D) 1

- Q57: What is $5/5 + 0$? A) 2 B) 0 C) $5/5$ D) 1
- Q58: What is $7/4 + 0$? A) $7/4$ B) 1 C) 0 D) $4/7$
- Q59: What is $2/2 + 0$? A) 0 B) $2/2$ C) 1 D) 2
- Q60: What is $2/5 + 0$? A) 1 B) 0 C) $2/5$ D) $5/2$
- Q61: What is $2/5 + 0$? A) 1 B) $2/5$ C) 0 D) $5/2$
- Q62: What is $8/6 + 0$? A) 1 B) 0 C) $6/8$ D) $8/6$
- Q63: What is $2/4 + 0$? A) 0 B) 1 C) $2/4$ D) $4/2$
- Q64: What is $9/4 + 0$? A) 1 B) $9/4$ C) 0 D) $4/9$
- Q65: What is $6/5 + 0$? A) $6/5$ B) 0 C) 1 D) $5/6$
- Q66: What is $5/2 + 0$? A) 1 B) 0 C) $2/5$ D) $5/2$
- Q67: What is $5/2 + 0$? A) $2/5$ B) 1 C) 0 D) $5/2$
- Q68: What is $5/4 + 0$? A) $5/4$ B) 0 C) $4/5$ D) 1
- Q69: What is $9/2 + 0$? A) 0 B) $2/9$ C) 1 D) $9/2$
- Q70: What is $9/2 + 0$? A) 0 B) $9/2$ C) 1 D) $2/9$
- Q71: What is $7/4 + 0$? A) 1 B) $4/7$ C) 0 D) $7/4$
- Q72: What is $1/7 + 0$? A) 1 B) $1/7$ C) $7/1$ D) 0
- Q73: What is $2/7 + 0$? A) 0 B) $2/7$ C) $7/2$ D) 1
- Q74: What is $4/4 + 0$? A) 1 B) $4/4$ C) 2 D) 0
- Q75: What is $3/7 + 0$? A) 0 B) $3/7$ C) $7/3$ D) 1
- Q76: What is $5/4 + 0$? A) $4/5$ B) 1 C) 0 D) $5/4$
- Q77: What is $8/5 + 0$? A) $8/5$ B) $5/8$ C) 1 D) 0
- Q78: What is $5/5 + 0$? A) 2 B) 1 C) $5/5$ D) 0
- Q79: What is $7/7 + 0$? A) 2 B) 0 C) $7/7$ D) 1
- Q80: What is $6/8 + 0$? A) 0 B) 1 C) $6/8$ D) $8/6$
- Q81: What is $5/4 + 0$? A) 0 B) 1 C) $5/4$ D) $4/5$
- Q82: What is $10/8 + 0$? A) $10/8$ B) 0 C) 1 D) $8/10$
- Q83: What is $7/3 + 0$? A) 0 B) $7/3$ C) $3/7$ D) 1
- Q84: What is $5/2 + 0$? A) 0 B) $2/5$ C) $5/2$ D) 1
- Q85: What is $6/8 + 0$? A) 1 B) 0 C) $8/6$ D) $6/8$
- Q86: What is $10/7 + 0$? A) 1 B) 0 C) $7/10$ D) $10/7$
- Q87: What is $9/6 + 0$? A) $9/6$ B) $6/9$ C) 0 D) 1
- Q88: What is $5/4 + 0$? A) $5/4$ B) $4/5$ C) 1 D) 0

Q89: What is $\frac{3}{6} + 0$? A) 0 B) $\frac{3}{6}$ C) $\frac{6}{3}$ D) 1Q90: What is $\frac{5}{6} + 0$? A) $\frac{5}{6}$ B) $\frac{6}{5}$ C) 1 D) 0Q91: What is $\frac{8}{9} + 0$? A) 0 B) $\frac{8}{9}$ C) $\frac{9}{8}$ D) 1Q92: What is $\frac{9}{9} + 0$? A) 2 B) $\frac{9}{9}$ C) 1 D) 0Q93: What is $\frac{5}{7} + 0$? A) $\frac{7}{5}$ B) 0 C) 1 D) $\frac{5}{7}$ Q94: What is $\frac{4}{5} + 0$? A) 1 B) $\frac{5}{4}$ C) $\frac{4}{5}$ D) 0Q95: What is $\frac{4}{9} + 0$? A) 1 B) $\frac{9}{4}$ C) 0 D) $\frac{4}{9}$ Q96: What is $\frac{10}{5} + 0$? A) $\frac{10}{5}$ B) $\frac{5}{10}$ C) 0 D) 1Q97: What is $\frac{4}{4} + 0$? A) 1 B) 0 C) 2 D) $\frac{4}{4}$ Q98: What is $\frac{4}{4} + 0$? A) 0 B) 1 C) $\frac{4}{4}$ D) 2Q99: What is $\frac{2}{9} + 0$? A) $\frac{2}{9}$ B) $\frac{9}{2}$ C) 1 D) 0Q100: What is $\frac{8}{8} + 0$? A) 1 B) 0 C) $\frac{8}{8}$ D) 2**Level 2 (Advanced)**

Q1: A rational number is a terminating decimal if its denominator has no prime factor other than:

A) 3 and 5 B) 2 and 5 C) 2 and 3 D) 2 and 7

Q2: The decimal representation of $\frac{17}{20}$ is: A) 0.95 B) 0.85 C) 0.8 D) Non-terminatingQ3: The decimal representation of $\frac{15}{20}$ is: A) Non-terminating B) 0.85 C) 0.7 D) 0.75Q4: The decimal representation of $\frac{3}{8}$ is: A) Non-terminating B) 0.375 C) 0.475 D) 0.325Q5: The decimal representation of $\frac{2}{8}$ is: A) 0.2 B) 0.25 C) Non-terminating D) 0.35Q6: The decimal representation of $\frac{1}{8}$ is: A) 0.125 B) 0.075 C) 0.225 D) Non-terminatingQ7: The decimal representation of $\frac{14}{25}$ is: A) 0.51 B) 0.66 C) Non-terminating D) 0.56Q8: The decimal representation of $\frac{19}{25}$ is: A) Non-terminating B) 0.86 C) 0.71 D) 0.76Q9: The decimal representation of $\frac{1}{25}$ is: A) 0.04 B) Non-terminating C) 0.14 D) -0.01Q10: The decimal representation of $\frac{18}{25}$ is: A) 0.67 B) 0.72 C) Non-terminating D) 0.82Q11: The decimal representation of $\frac{14}{20}$ is: A) 0.65 B) 0.8 C) 0.7 D) Non-terminatingQ12: The decimal representation of $\frac{13}{20}$ is: A) 0.6 B) 0.65 C) Non-terminating D) 0.75Q13: The decimal representation of $\frac{2}{4}$ is: A) 0.45 B) 0.6 C) Non-terminating D) 0.5Q14: The decimal representation of $\frac{7}{8}$ is: A) 0.975 B) 0.825 C) 0.875 D) Non-terminatingQ15: The decimal representation of $\frac{13}{20}$ is: A) Non-terminating B) 0.75 C) 0.65 D) 0.6Q16: The decimal representation of $\frac{11}{20}$ is: A) 0.55 B) 0.5 C) 0.65 D) Non-terminatingQ17: The decimal representation of $\frac{3}{20}$ is: A) 0.25 B) 0.1 C) 0.15 D) Non-terminatingQ18: The decimal representation of $\frac{8}{20}$ is: A) 0.5 B) Non-terminating C) 0.35 D) 0.4

- Q19: The decimal representation of $\frac{1}{4}$ is: A) Non-terminating B) 0.2 C) 0.25 D) 0.35
- Q20: The decimal representation of $\frac{2}{8}$ is: A) 0.35 B) 0.25 C) 0.2 D) Non-terminating
- Q21: The decimal representation of $\frac{4}{8}$ is: A) Non-terminating B) 0.5 C) 0.6 D) 0.45
- Q22: The decimal representation of $\frac{1}{4}$ is: A) 0.35 B) Non-terminating C) 0.25 D) 0.2
- Q23: The decimal representation of $\frac{19}{20}$ is: A) 0.9 B) 0.95 C) 1.05 D) Non-terminating
- Q24: The decimal representation of $\frac{3}{4}$ is: A) 0.7 B) Non-terminating C) 0.75 D) 0.85
- Q25: The decimal representation of $\frac{3}{4}$ is: A) Non-terminating B) 0.7 C) 0.85 D) 0.75
- Q26: The decimal representation of $\frac{3}{20}$ is: A) Non-terminating B) 0.25 C) 0.15 D) 0.1
- Q27: The decimal representation of $\frac{4}{25}$ is: A) 0.16 B) 0.11 C) 0.26 D) Non-terminating
- Q28: The decimal representation of $\frac{4}{8}$ is: A) 0.5 B) Non-terminating C) 0.45 D) 0.6
- Q29: The decimal representation of $\frac{15}{25}$ is: A) 0.6 B) 0.7 C) 0.55 D) Non-terminating
- Q30: The decimal representation of $\frac{8}{20}$ is: A) Non-terminating B) 0.35 C) 0.5 D) 0.4
- Q31: The decimal representation of $\frac{7}{8}$ is: A) 0.875 B) 0.975 C) 0.825 D) Non-terminating
- Q32: The decimal representation of $\frac{1}{20}$ is: A) 0.0 B) 0.05 C) 0.15 D) Non-terminating
- Q33: The decimal representation of $\frac{7}{25}$ is: A) 0.28 B) Non-terminating C) 0.38 D) 0.23
- Q34: The decimal representation of $\frac{9}{20}$ is: A) 0.55 B) Non-terminating C) 0.4 D) 0.45
- Q35: The decimal representation of $\frac{1}{4}$ is: A) 0.2 B) 0.25 C) 0.35 D) Non-terminating
- Q36: The decimal representation of $\frac{21}{25}$ is: A) 0.79 B) 0.84 C) 0.94 D) Non-terminating
- Q37: The decimal representation of $\frac{2}{4}$ is: A) 0.45 B) 0.5 C) Non-terminating D) 0.6
- Q38: The decimal representation of $\frac{19}{20}$ is: A) 0.95 B) Non-terminating C) 1.05 D) 0.9
- Q39: The decimal representation of $\frac{24}{25}$ is: A) 0.96 B) Non-terminating C) 1.06 D) 0.91
- Q40: The decimal representation of $\frac{10}{20}$ is: A) 0.6 B) Non-terminating C) 0.5 D) 0.45
- Q41: Convert 0.888... to a fraction in simplest form. A) $\frac{8}{99}$ B) $\frac{8}{9}$ C) $\frac{9}{9}$ D) $\frac{8}{10}$
- Q42: Convert 0.888... to a fraction in simplest form. A) $\frac{9}{9}$ B) $\frac{8}{99}$ C) $\frac{8}{9}$ D) $\frac{8}{10}$
- Q43: Convert 0.888... to a fraction in simplest form. A) $\frac{8}{9}$ B) $\frac{8}{99}$ C) $\frac{8}{10}$ D) $\frac{9}{9}$
- Q44: Convert 0.222... to a fraction in simplest form. A) $\frac{2}{99}$ B) $\frac{2}{9}$ C) $\frac{3}{9}$ D) $\frac{2}{10}$
- Q45: Convert 0.555... to a fraction in simplest form. A) $\frac{5}{99}$ B) $\frac{5}{9}$ C) $\frac{6}{9}$ D) $\frac{5}{10}$
- Q46: Convert 0.888... to a fraction in simplest form. A) $\frac{8}{99}$ B) $\frac{8}{9}$ C) $\frac{9}{9}$ D) $\frac{8}{10}$
- Q47: Convert 0.222... to a fraction in simplest form. A) $\frac{2}{10}$ B) $\frac{2}{9}$ C) $\frac{3}{9}$ D) $\frac{2}{99}$
- Q48: Convert 0.888... to a fraction in simplest form. A) $\frac{8}{10}$ B) $\frac{8}{99}$ C) $\frac{8}{9}$ D) $\frac{9}{9}$
- Q49: Convert 0.777... to a fraction in simplest form. A) $\frac{7}{9}$ B) $\frac{8}{9}$ C) $\frac{7}{10}$ D) $\frac{7}{99}$
- Q50: Convert 0.666... to a fraction in simplest form. A) $\frac{6}{10}$ B) $\frac{7}{9}$ C) $\frac{6}{9}$ D) $\frac{6}{99}$

Topic 2: Simplification

Explanation: Simplification involves reducing a mathematical expression to its simplest form using the BODMAS rule.

Solved Examples:

1. $2 + 3 * 4 = 14$
2. $(2 + 3) * 4 = 20$
3. $10 / 2 + 3 = 8$
4. $15 - (5 - 2) = 12$

Level 1 (Standard)

Q1: Simplify: $5 + 5 * 2$ A) 20 B) 14 C) 16 D) 15

Q2: Simplify: $2 + 2 * 3$ A) 8 B) 12 C) 7 D) 9

Q3: Simplify: $2 + 3 * 2$ A) 9 B) 8 C) 7 D) 10

Q4: Simplify: $9 + 5 * 5$ A) 34 B) 33 C) 35 D) 70

Q5: Simplify: $5 + 2 * 2$ A) 14 B) 9 C) 8 D) 10

Q6: Simplify: $5 + 2 * 3$ A) 21 B) 10 C) 11 D) 12

Q7: Simplify: $3 + 2 * 5$ A) 13 B) 14 C) 12 D) 25

Q8: Simplify: $5 + 2 * 3$ A) 11 B) 12 C) 21 D) 10

Q9: Simplify: $8 + 2 * 3$ A) 15 B) 14 C) 30 D) 13

Q10: Simplify: $7 + 2 * 3$ A) 12 B) 13 C) 27 D) 14

Q11: Simplify: $2 + 2 * 3$ A) 8 B) 9 C) 12 D) 7

Q12: Simplify: $8 + 2 * 5$ A) 18 B) 19 C) 50 D) 17

Q13: Simplify: $5 + 5 * 5$ A) 31 B) 50 C) 29 D) 30

Q14: Simplify: $7 + 4 * 4$ A) 24 B) 22 C) 44 D) 23

Q15: Simplify: $10 + 2 * 4$ A) 17 B) 19 C) 48 D) 18

Q16: Simplify: $9 + 5 * 4$ A) 29 B) 56 C) 28 D) 30

Q17: Simplify: $8 + 2 * 5$ A) 18 B) 50 C) 19 D) 17

Q18: Simplify: $6 + 2 * 3$ A) 12 B) 24 C) 13 D) 11

Q19: Simplify: $5 + 5 * 2$ A) 14 B) 16 C) 15 D) 20

Q20: Simplify: $5 + 4 * 2$ A) 14 B) 13 C) 12 D) 18

Q21: Simplify: $9 + 5 * 5$ A) 33 B) 35 C) 70 D) 34

Q22: Simplify: $10 + 5 * 5$ A) 34 B) 36 C) 75 D) 35

Q23: Simplify: $9 + 3 * 4$ A) 21 B) 22 C) 20 D) 48

Q24: Simplify: $2 + 2 * 3$ A) 7 B) 8 C) 12 D) 9

Q25: Simplify: $9 + 5 * 2$ A) 18 B) 28 C) 19 D) 20Q26: Simplify: $2 + 3 * 5$ A) 17 B) 18 C) 25 D) 16Q27: Simplify: $7 + 5 * 5$ A) 31 B) 32 C) 60 D) 33Q28: Simplify: $7 + 3 * 3$ A) 30 B) 15 C) 17 D) 16Q29: Simplify: $6 + 4 * 2$ A) 14 B) 15 C) 20 D) 13Q30: Simplify: $10 + 5 * 3$ A) 25 B) 26 C) 24 D) 45Q31: Simplify: $6 + 4 * 5$ A) 25 B) 26 C) 27 D) 50Q32: Simplify: $4 + 5 * 3$ A) 18 B) 20 C) 19 D) 27Q33: Simplify: $8 + 5 * 5$ A) 32 B) 33 C) 65 D) 34Q34: Simplify: $3 + 4 * 2$ A) 10 B) 12 C) 11 D) 14Q35: Simplify: $1 + 3 * 5$ A) 15 B) 20 C) 16 D) 17Q36: Simplify: $5 + 4 * 5$ A) 45 B) 24 C) 26 D) 25Q37: Simplify: $6 + 5 * 2$ A) 15 B) 17 C) 22 D) 16Q38: Simplify: $4 + 2 * 5$ A) 15 B) 30 C) 13 D) 14Q39: Simplify: $8 + 3 * 4$ A) 19 B) 21 C) 44 D) 20Q40: Simplify: $1 + 4 * 4$ A) 20 B) 17 C) 18 D) 16Q41: Simplify: $4 + 5 * 3$ A) 27 B) 18 C) 19 D) 20Q42: Simplify: $10 + 5 * 3$ A) 26 B) 25 C) 24 D) 45Q43: Simplify: $4 + 5 * 4$ A) 23 B) 24 C) 25 D) 36Q44: Simplify: $8 + 4 * 3$ A) 36 B) 19 C) 21 D) 20Q45: Simplify: $10 + 4 * 5$ A) 30 B) 70 C) 31 D) 29Q46: Simplify: $4 + 5 * 5$ A) 28 B) 30 C) 45 D) 29Q47: Simplify: $10 + 4 * 4$ A) 56 B) 27 C) 26 D) 25Q48: Simplify: $5 + 2 * 2$ A) 8 B) 9 C) 10 D) 14Q49: Simplify: $10 + 4 * 3$ A) 22 B) 42 C) 21 D) 23Q50: Simplify: $3 + 2 * 2$ A) 10 B) 7 C) 8 D) 6Q51: Simplify: $10 + 4 * 3$ A) 42 B) 21 C) 23 D) 22Q52: Simplify: $7 + 3 * 3$ A) 16 B) 30 C) 15 D) 17Q53: Simplify: $9 + 4 * 3$ A) 21 B) 39 C) 22 D) 20Q54: Simplify: $6 + 2 * 5$ A) 17 B) 15 C) 40 D) 16Q55: Simplify: $7 + 4 * 2$ A) 14 B) 16 C) 15 D) 22Q56: Simplify: $9 + 2 * 5$ A) 19 B) 20 C) 55 D) 18

Q57: Simplify: $10 + 5 \times 4$ A) 31 B) 60 C) 29 D) 30

Q58: Simplify: $8 + 2 \times 4$ A) 40 B) 16 C) 15 D) 17

Q59: Simplify: $8 + 4 \times 5$ A) 29 B) 27 C) 60 D) 28

Q60: Simplify: $1 + 4 \times 5$ A) 22 B) 20 C) 25 D) 21

Q61: Simplify: $9 + 3 \times 5$ A) 24 B) 23 C) 25 D) 60

Q62: Simplify: $10 + 3 \times 5$ A) 65 B) 24 C) 26 D) 25

Q63: Simplify: $5 + 2 \times 4$ A) 13 B) 12 C) 28 D) 14

Q64: Simplify: $4 + 4 \times 2$ A) 12 B) 13 C) 16 D) 11

Q65: Simplify: $1 + 5 \times 4$ A) 20 B) 24 C) 21 D) 22

Q66: Simplify: $2 + 3 \times 2$ A) 7 B) 10 C) 9 D) 8

Q67: Simplify: $3 + 3 \times 2$ A) 12 B) 9 C) 8 D) 10

Q68: Simplify: $4 + 4 \times 3$ A) 15 B) 24 C) 17 D) 16

Q69: Simplify: $3 + 4 \times 3$ A) 16 B) 21 C) 14 D) 15

Q70: Simplify: $3 + 2 \times 4$ A) 11 B) 20 C) 10 D) 12

Q71: Simplify: $1 + 3 \times 4$ A) 12 B) 14 C) 16 D) 13

Q72: Simplify: $9 + 2 \times 2$ A) 13 B) 12 C) 14 D) 22

Q73: Simplify: $9 + 2 \times 5$ A) 55 B) 19 C) 18 D) 20

Q74: Simplify: $9 + 4 \times 5$ A) 28 B) 30 C) 65 D) 29

Q75: Simplify: $7 + 5 \times 2$ A) 17 B) 18 C) 16 D) 24

Q76: Simplify: $2 + 2 \times 4$ A) 16 B) 9 C) 10 D) 11

Q77: Simplify: $5 + 4 \times 5$ A) 25 B) 45 C) 26 D) 24

Q78: Simplify: $2 + 2 \times 3$ A) 7 B) 8 C) 9 D) 12

Q79: Simplify: $7 + 4 \times 5$ A) 26 B) 27 C) 28 D) 55

Q80: Simplify: $6 + 5 \times 4$ A) 44 B) 26 C) 27 D) 25

Q81: Simplify: $8 + 2 \times 2$ A) 11 B) 13 C) 20 D) 12

Q82: Simplify: $2 + 4 \times 3$ A) 18 B) 15 C) 13 D) 14

Q83: Simplify: $2 + 5 \times 4$ A) 23 B) 22 C) 21 D) 28

Q84: Simplify: $5 + 4 \times 4$ A) 22 B) 36 C) 20 D) 21

Q85: Simplify: $3 + 5 \times 3$ A) 24 B) 17 C) 19 D) 18

Q86: Simplify: $2 + 4 \times 3$ A) 15 B) 14 C) 13 D) 18

Q87: Simplify: $10 + 4 \times 2$ A) 18 B) 17 C) 28 D) 19

Q88: Simplify: $6 + 4 \times 2$ A) 13 B) 20 C) 14 D) 15

Q89: Simplify: $2 + 3 \times 2$ A) 9 B) 10 C) 7 D) 8

Q90: Simplify: $7 + 5 \times 5$ A) 60 B) 33 C) 32 D) 31

Q91: Simplify: $5 + 4 \times 2$ A) 14 B) 12 C) 18 D) 13

Q92: Simplify: $10 + 2 \times 2$ A) 14 B) 24 C) 15 D) 13

Q93: Simplify: $8 + 5 \times 5$ A) 34 B) 65 C) 33 D) 32

Q94: Simplify: $6 + 5 \times 2$ A) 16 B) 17 C) 22 D) 15

Q95: Simplify: $9 + 4 \times 2$ A) 16 B) 17 C) 26 D) 18

Q96: Simplify: $1 + 3 \times 4$ A) 12 B) 16 C) 13 D) 14

Q97: Simplify: $5 + 4 \times 2$ A) 18 B) 12 C) 14 D) 13

Q98: Simplify: $3 + 3 \times 5$ A) 18 B) 30 C) 17 D) 19

Q99: Simplify: $2 + 5 \times 2$ A) 11 B) 13 C) 12 D) 14

Q100: Simplify: $2 + 4 \times 5$ A) 22 B) 23 C) 21 D) 30

Level 2 (Advanced)

Q1: Simplify using BODMAS: $4 \times (2 + 5)$ A) 14 B) 40 C) 13 D) 28

Q2: Simplify using BODMAS: $6 \times (5 + 4)$ A) 26 B) 120 C) 34 D) 54

Q3: Simplify using BODMAS: $3 \times (5 + 6)$ A) 21 B) 33 C) 90 D) 0

Q4: Simplify using BODMAS: $5 \times (4 + 4)$ A) 21 B) 40 C) 80 D) 24

Q5: Simplify using BODMAS: $2 \times (6 + 2)$ A) 16 B) 24 C) 0 D) 14

Q6: Simplify using BODMAS: $3 \times (3 + 2)$ A) 9 B) 15 C) 18 D) 11

Q7: Simplify using BODMAS: $3 \times (6 + 3)$ A) 54 B) 21 C) 0 D) 27

Q8: Simplify using BODMAS: $5 \times (6 + 6)$ A) 60 B) 36 C) 41 D) 180

Q9: Simplify using BODMAS: $4 \times (3 + 5)$ A) 60 B) 19 C) 17 D) 32

Q10: Simplify using BODMAS: $4 \times (4 + 6)$ A) 28 B) 96 C) 22 D) 40

Q11: Simplify using BODMAS: $4 \times (5 + 5)$ A) 29 B) 25 C) 100 D) 40

Q12: Simplify using BODMAS: $4 \times (2 + 2)$ A) 8 B) 16 C) 10 D) 0

Q13: Simplify using BODMAS: $5 \times (6 + 3)$ A) 45 B) 33 C) 90 D) 23

Q14: Simplify using BODMAS: $6 \times (3 + 2)$ A) 12 B) 20 C) 30 D) 36

Q15: Simplify using BODMAS: $2 \times (6 + 3)$ A) 20 B) 15 C) 36 D) 18

Q16: Simplify using BODMAS: $5 \times (6 + 6)$ A) 60 B) 41 C) 180 D) 36

Q17: Simplify using BODMAS: $4 \times (5 + 5)$ A) 25 B) 40 C) 100 D) 29

Q18: Simplify using BODMAS: $4 \times (2 + 4)$ A) 0 B) 12 C) 32 D) 24

Q19: Simplify using BODMAS: $4 \times (4 + 6)$ A) 28 B) 40 C) 96 D) 22

Q20: Simplify using BODMAS: $6 \times (3 + 4)$ A) 42 B) 22 C) 72 D) 18

Q21: Simplify using BODMAS: $3 \times (6 + 2)$ A) 24 B) 20 C) 36 D) 15

Q22: Simplify using BODMAS: $4 \times (3 + 6)$ A) 72 B) 18 C) 22 D) 36

Q23: Simplify using BODMAS: $6 \times (4 + 2)$ A) 48 B) 36 C) 26 D) 14

Q24: Simplify using BODMAS: $3 \times (4 + 5)$ A) 60 B) 23 C) 27 D) 17

Q25: Simplify using BODMAS: $3 \times (2 + 4)$ A) 10 B) 24 C) 11 D) 18

Q26: Simplify using BODMAS: $4 \times (6 + 3)$ A) 27 B) 22 C) 36 D) 72

Q27: Simplify using BODMAS: $3 \times (6 + 3)$ A) 54 B) 21 C) 27 D) 0

Q28: Simplify using BODMAS: $4 \times (3 + 5)$ A) 32 B) 17 C) 60 D) 19

Q29: Simplify using BODMAS: $3 \times (6 + 3)$ A) 0 B) 27 C) 21 D) 54

Q30: Simplify using BODMAS: $4 \times (6 + 5)$ A) 44 B) 34 C) 29 D) 120

Q31: Simplify using BODMAS: $6 \times (6 + 5)$ A) 180 B) 36 C) 66 D) 41

Q32: Simplify using BODMAS: $4 \times (2 + 5)$ A) 13 B) 28 C) 40 D) 14

Q33: Simplify using BODMAS: $6 \times (2 + 4)$ A) 14 B) 16 C) 48 D) 36

Q34: Simplify using BODMAS: $5 \times (6 + 3)$ A) 33 B) 23 C) 45 D) 90

Q35: Simplify using BODMAS: $5 \times (4 + 2)$ A) 13 B) 22 C) 30 D) 40

Q36: Simplify using BODMAS: $6 \times (4 + 3)$ A) 18 B) 27 C) 42 D) 72

Q37: Simplify using BODMAS: $3 \times (2 + 4)$ A) 24 B) 10 C) 11 D) 18

Q38: Simplify using BODMAS: $3 \times (3 + 2)$ A) 18 B) 15 C) 11 D) 9

Q39: Simplify using BODMAS: $5 \times (5 + 6)$ A) 31 B) 35 C) 150 D) 55

Q40: Simplify using BODMAS: $4 \times (3 + 3)$ A) 13 B) 15 C) 24 D) 36

Q41: Simplify: $(3^2)^2$ A) 12 B) 36 C) 0 D) 81

Q42: Simplify: $(5^1)^2$ A) 125 B) 25 C) 10 D) 0

Q43: Simplify: $(3^3)^2$ A) 18 B) 729 C) 243 D) 81

Q44: Simplify: $(4^1)^4$ A) 1024 B) 16 C) 256 D) 0

Q45: Simplify: $(4^1)^4$ A) 0 B) 16 C) 1024 D) 256

Q46: Simplify: $(2^3)^3$ A) 18 B) 512 C) 64 D) 216

Q47: Simplify: $(4^1)^3$ A) 0 B) 64 C) 12 D) 256

Q48: Simplify: $(4^1)^2$ A) 16 B) 64 C) 0 D) 8

Q49: Simplify: $(3^3)^3$ A) 729 B) 19683 C) 27 D) 0

Q50: Simplify: $(3^1)^4$ A) 12 B) 243 C) 81 D) 0

Topic 3: Sets

Explanation: A set is a well-defined collection of distinct objects.

Solved Examples:

1. Union ($\cup$): Combines all elements.
2. Intersection ($\cap$): Finds common elements.
3. $A=\{1,2\}$, $B=\{2,3\} \rightarrow A \cup B = \{1,2,3\}$
4. Null set $\{\}$ contains no elements.

Level 1 (Standard)

Q1: How many subsets does a set with 2 elements have? A) 5 B) 0 C) 4 D) 3

Q2: Which of the following represents the null set? A) $\{\}$ B) $\{0\}$ C) $\{1\}$ D) $\{\text{null}\}$

Q3: Which of the following represents the null set? A) $\{0\}$ B) $\{\text{null}\}$ C) $\{1\}$ D) $\{\}$

Q4: Which of the following represents the null set? A) $\{\text{null}\}$ B) $\{0\}$ C) $\{\}$ D) $\{1\}$

Q5: Which of the following represents the null set? A) $\{\text{null}\}$ B) $\{1\}$ C) $\{0\}$ D) $\{\}$

Q6: Which of the following represents the null set? A) $\{\}$ B) $\{1\}$ C) $\{0\}$ D) $\{\text{null}\}$

Q7: How many subsets does a set with 5 elements have? A) 32 B) 10 C) 31 D) 33

Q8: How many subsets does a set with 5 elements have? A) 10 B) 33 C) 31 D) 32

Q9: Which of the following represents the null set? A) $\{\text{null}\}$ B) $\{\}$ C) $\{0\}$ D) $\{1\}$

Q10: How many subsets does a set with 4 elements have? A) 16 B) 17 C) 15 D) 8

Q11: Which of the following represents the null set? A) $\{1\}$ B) $\{0\}$ C) $\{\}$ D) $\{\text{null}\}$

Q12: Which of the following represents the null set? A) $\{1\}$ B) $\{0\}$ C) $\{\}$ D) $\{\text{null}\}$

Q13: Which of the following represents the null set? A) $\{1\}$ B) $\{\}$ C) $\{0\}$ D) $\{\text{null}\}$

Q14: How many subsets does a set with 5 elements have? A) 31 B) 32 C) 33 D) 10

Q15: How many subsets does a set with 3 elements have? A) 7 B) 6 C) 8 D) 9

Q16: How many subsets does a set with 3 elements have? A) 8 B) 9 C) 7 D) 6

Q17: Which of the following represents the null set? A) $\{0\}$ B) $\{\text{null}\}$ C) $\{1\}$ D) $\{\}$

Q18: Which of the following represents the null set? A) $\{\}$ B) $\{1\}$ C) $\{0\}$ D) $\{\text{null}\}$

Q19: Which of the following represents the null set? A) $\{0\}$ B) $\{\text{null}\}$ C) $\{1\}$ D) $\{\}$

Q20: Which of the following represents the null set? A) $\{\}$ B) $\{\text{null}\}$ C) $\{0\}$ D) $\{1\}$

Q21: Which of the following represents the null set? A) $\{0\}$ B) $\{\text{null}\}$ C) $\{\}$ D) $\{1\}$

Q22: How many subsets does a set with 3 elements have? A) 8 B) 7 C) 6 D) 9

Q23: Which of the following represents the null set? A) $\{\text{null}\}$ B) $\{1\}$ C) $\{0\}$ D) $\{\}$

Q24: Which of the following represents the null set? A) $\{1\}$ B) $\{0\}$ C) $\{\}$ D) $\{\text{null}\}$

- Q25: Which of the following represents the null set? A) {0} B) {1} C) {} D) {null}
- Q26: How many subsets does a set with 2 elements have? A) 5 B) 3 C) 4 D) 0
- Q27: How many subsets does a set with 4 elements have? A) 15 B) 16 C) 17 D) 8
- Q28: Which of the following represents the null set? A) {null} B) {} C) {0} D) {1}
- Q29: Which of the following represents the null set? A) {1} B) {} C) {null} D) {0}
- Q30: How many subsets does a set with 3 elements have? A) 6 B) 9 C) 8 D) 7
- Q31: How many subsets does a set with 4 elements have? A) 17 B) 16 C) 15 D) 8
- Q32: Which of the following represents the null set? A) {1} B) {0} C) {null} D) {}
- Q33: Which of the following represents the null set? A) {} B) {0} C) {1} D) {null}
- Q34: Which of the following represents the null set? A) {1} B) {0} C) {null} D) {}
- Q35: Which of the following represents the null set? A) {null} B) {1} C) {0} D) {}
- Q36: Which of the following represents the null set? A) {0} B) {null} C) {} D) {1}
- Q37: How many subsets does a set with 5 elements have? A) 31 B) 10 C) 33 D) 32
- Q38: Which of the following represents the null set? A) {1} B) {null} C) {} D) {0}
- Q39: Which of the following represents the null set? A) {} B) {1} C) {null} D) {0}
- Q40: How many subsets does a set with 4 elements have? A) 16 B) 17 C) 8 D) 15
- Q41: How many subsets does a set with 4 elements have? A) 15 B) 17 C) 8 D) 16
- Q42: Which of the following represents the null set? A) {1} B) {null} C) {} D) {0}
- Q43: Which of the following represents the null set? A) {0} B) {1} C) {null} D) {}
- Q44: How many subsets does a set with 4 elements have? A) 16 B) 17 C) 8 D) 15
- Q45: Which of the following represents the null set? A) {null} B) {1} C) {0} D) {}
- Q46: Which of the following represents the null set? A) {null} B) {} C) {0} D) {1}
- Q47: Which of the following represents the null set? A) {} B) {1} C) {0} D) {null}
- Q48: How many subsets does a set with 2 elements have? A) 4 B) 5 C) 0 D) 3
- Q49: Which of the following represents the null set? A) {1} B) {0} C) {} D) {null}
- Q50: Which of the following represents the null set? A) {} B) {1} C) {null} D) {0}
- Q51: Which of the following represents the null set? A) {null} B) {} C) {0} D) {1}
- Q52: Which of the following represents the null set? A) {1} B) {null} C) {0} D) {}
- Q53: Which of the following represents the null set? A) {null} B) {1} C) {0} D) {}
- Q54: How many subsets does a set with 3 elements have? A) 6 B) 7 C) 9 D) 8
- Q55: Which of the following represents the null set? A) {0} B) {1} C) {} D) {null}
- Q56: Which of the following represents the null set? A) {0} B) {null} C) {} D) {1}

Q57: Which of the following represents the null set? A) {} B) {1} C) {0} D) {null}

Q58: Which of the following represents the null set? A) {1} B) {0} C) {null} D) {}

Q59: Which of the following represents the null set? A) {0} B) {1} C) {} D) {null}

Q60: Which of the following represents the null set? A) {0} B) {null} C) {} D) {1}

Q61: Which of the following represents the null set? A) {} B) {0} C) {1} D) {null}

Q62: Which of the following represents the null set? A) {1} B) {0} C) {null} D) {}

Q63: How many subsets does a set with 4 elements have? A) 16 B) 17 C) 15 D) 8

Q64: How many subsets does a set with 5 elements have? A) 31 B) 33 C) 10 D) 32

Q65: Which of the following represents the null set? A) {null} B) {0} C) {} D) {1}

Q66: Which of the following represents the null set? A) {} B) {0} C) {1} D) {null}

Q67: Which of the following represents the null set? A) {0} B) {1} C) {null} D) {}

Q68: Which of the following represents the null set? A) {} B) {null} C) {0} D) {1}

Q69: How many subsets does a set with 3 elements have? A) 7 B) 8 C) 6 D) 9

Q70: How many subsets does a set with 2 elements have? A) 4 B) 0 C) 5 D) 3

Q71: Which of the following represents the null set? A) {0} B) {1} C) {} D) {null}

Q72: Which of the following represents the null set? A) {null} B) {0} C) {} D) {1}

Q73: Which of the following represents the null set? A) {} B) {0} C) {null} D) {1}

Q74: Which of the following represents the null set? A) {} B) {0} C) {1} D) {null}

Q75: Which of the following represents the null set? A) {null} B) {1} C) {0} D) {}

Q76: Which of the following represents the null set? A) {null} B) {1} C) {0} D) {}

Q77: Which of the following represents the null set? A) {null} B) {0} C) {1} D) {}

Q78: Which of the following represents the null set? A) {null} B) {} C) {1} D) {0}

Q79: Which of the following represents the null set? A) {1} B) {0} C) {} D) {null}

Q80: How many subsets does a set with 3 elements have? A) 7 B) 9 C) 6 D) 8

Q81: How many subsets does a set with 2 elements have? A) 4 B) 5 C) 3 D) 0

Q82: How many subsets does a set with 5 elements have? A) 32 B) 10 C) 33 D) 31

Q83: Which of the following represents the null set? A) {0} B) {null} C) {1} D) {}

Q84: Which of the following represents the null set? A) {} B) {null} C) {1} D) {0}

Q85: Which of the following represents the null set? A) {} B) {0} C) {1} D) {null}

Q86: Which of the following represents the null set? A) {} B) {1} C) {null} D) {0}

Q87: Which of the following represents the null set? A) {} B) {0} C) {null} D) {1}

Q88: Which of the following represents the null set? A) {0} B) {1} C) {} D) {null}

Q89: Which of the following represents the null set? A) {null} B) {0} C) {} D) {1}

Q90: Which of the following represents the null set? A) {} B) {null} C) {1} D) {0}

Q91: Which of the following represents the null set? A) {} B) {1} C) {0} D) {null}

Q92: Which of the following represents the null set? A) {null} B) {0} C) {1} D) {}

Q93: Which of the following represents the null set? A) {null} B) {0} C) {} D) {1}

Q94: How many subsets does a set with 4 elements have? A) 17 B) 8 C) 15 D) 16

Q95: Which of the following represents the null set? A) {} B) {0} C) {null} D) {1}

Q96: How many subsets does a set with 3 elements have? A) 8 B) 7 C) 9 D) 6

Q97: How many subsets does a set with 2 elements have? A) 0 B) 5 C) 4 D) 3

Q98: Which of the following represents the null set? A) {null} B) {} C) {1} D) {0}

Q99: How many subsets does a set with 2 elements have? A) 4 B) 5 C) 3 D) 0

Q100: How many subsets does a set with 3 elements have? A) 7 B) 9 C) 6 D) 8

Level 2 (Advanced)

Q1: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {3} B) {1,2,3,4,5} C) {1,2,4,5} D) {}

Q2: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,3,4,5} B) {3} C) {1,2,4,5} D) {}

Q3: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {3} B) {} C) {1,2,3,4,5} D) {1,2,4,5}

Q4: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,3,4,5} B) {1,2,4,5} C) {} D) {3}

Q5: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,4,5} B) {1,2,3,4,5} C) {} D) {3}

Q6: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,4,5} B) {} C) {3} D) {1,2,3,4,5}

Q7: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,4,5} B) {1,2,3,4,5} C) {3} D) {}

Q8: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,4,5} B) {1,2,3,4,5} C) {} D) {3}

Q9: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {} B) {1,2,4,5} C) {1,2,3,4,5} D) {3}

Q10: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {3} B) {1,2,3,4,5} C) {1,2,4,5} D) {}

Q11: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {3} B) {} C) {1,2,4,5} D) {1,2,3,4,5}

Q12: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,3,4,5} B) {} C) {3} D) {1,2,4,5}

Q13: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {} B) {1,2,3,4,5} C) {3} D) {1,2,4,5}

Q14: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,3,4,5} B) {3} C) {} D) {1,2,4,5}

Q15: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {} B) {1,2,3,4,5} C) {1,2,4,5} D) {3}

Q16: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {1,2,3,4,5} B) {3} C) {} D) {1,2,4,5}

Q17: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {3} B) {} C) {1,2,4,5} D) {1,2,3,4,5}

Q18: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) {3} B) {1,2,3,4,5} C) {1,2,4,5} D) {}

- Q19: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,4,5\}$ B) $\{\}$ C) $\{1,2,3,4,5\}$ D) $\{3\}$
- Q20: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,4,5\}$ B) $\{\}$ C) $\{3\}$ D) $\{1,2,3,4,5\}$
- Q21: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,3,4,5\}$ B) $\{\}$ C) $\{3\}$ D) $\{1,2,4,5\}$
- Q22: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{\}$ B) $\{3\}$ C) $\{1,2,3,4,5\}$ D) $\{1,2,4,5\}$
- Q23: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{3\}$ B) $\{1,2,4,5\}$ C) $\{1,2,3,4,5\}$ D) $\{\}$
- Q24: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,3,4,5\}$ B) $\{3\}$ C) $\{\}$ D) $\{1,2,4,5\}$
- Q25: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{3\}$ B) $\{1,2,3,4,5\}$ C) $\{\}$ D) $\{1,2,4,5\}$
- Q26: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{\}$ B) $\{1,2,4,5\}$ C) $\{3\}$ D) $\{1,2,3,4,5\}$
- Q27: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,4,5\}$ B) $\{3\}$ C) $\{1,2,3,4,5\}$ D) $\{\}$
- Q28: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{3\}$ B) $\{1,2,3,4,5\}$ C) $\{1,2,4,5\}$ D) $\{\}$
- Q29: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{\}$ B) $\{1,2,3,4,5\}$ C) $\{1,2,4,5\}$ D) $\{3\}$
- Q30: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,3,4,5\}$ B) $\{3\}$ C) $\{\}$ D) $\{1,2,4,5\}$
- Q31: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,4,5\}$ B) $\{\}$ C) $\{3\}$ D) $\{1,2,3,4,5\}$
- Q32: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{3\}$ B) $\{1,2,4,5\}$ C) $\{\}$ D) $\{1,2,3,4,5\}$
- Q33: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{3\}$ B) $\{1,2,3,4,5\}$ C) $\{1,2,4,5\}$ D) $\{\}$
- Q34: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{\}$ B) $\{1,2,4,5\}$ C) $\{3\}$ D) $\{1,2,3,4,5\}$
- Q35: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{3\}$ B) $\{1,2,3,4,5\}$ C) $\{1,2,4,5\}$ D) $\{\}$
- Q36: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,3,4,5\}$ B) $\{\}$ C) $\{1,2,4,5\}$ D) $\{3\}$
- Q37: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,3,4,5\}$ B) $\{\}$ C) $\{1,2,4,5\}$ D) $\{3\}$
- Q38: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,4,5\}$ B) $\{\}$ C) $\{3\}$ D) $\{1,2,3,4,5\}$
- Q39: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,3,4,5\}$ B) $\{1,2,4,5\}$ C) $\{3\}$ D) $\{\}$
- Q40: If $A = \{1,2,3\}$ and $B = \{3,4,5\}$, what is $A \cap B$? A) $\{1,2,4,5\}$ B) $\{1,2,3,4,5\}$ C) $\{3\}$ D) $\{\}$
- Q41: A set has 3 elements. How many PROPER subsets does it have? A) 9 B) 8 C) 7 D) 6
- Q42: A set has 6 elements. How many PROPER subsets does it have? A) 12 B) 64 C) 36 D) 63
- Q43: A set has 5 elements. How many PROPER subsets does it have? A) 10 B) 25 C) 32 D) 31
- Q44: A set has 3 elements. How many PROPER subsets does it have? A) 6 B) 7 C) 9 D) 8
- Q45: A set has 3 elements. How many PROPER subsets does it have? A) 9 B) 7 C) 8 D) 6
- Q46: A set has 3 elements. How many PROPER subsets does it have? A) 9 B) 6 C) 8 D) 7
- Q47: A set has 5 elements. How many PROPER subsets does it have? A) 32 B) 25 C) 31 D) 10
- Q48: A set has 6 elements. How many PROPER subsets does it have? A) 63 B) 12 C) 64 D) 36
- Q49: A set has 6 elements. How many PROPER subsets does it have? A) 64 B) 36 C) 63 D) 12
- Q50: A set has 5 elements. How many PROPER subsets does it have? A) 25 B) 32 C) 10 D) 31

Topic 4: Rate, Ratio and Proportion

Explanation: A ratio compares two quantities. A proportion is an equation showing that two ratios are equal.

Solved Examples:

- Ratio of 10 to 5 is 2:1.
- 2:3 :: 4:6 is a valid proportion.
- Rate compares different units (e.g. km/h).
- If $x:2 = 4:8$, then $x=1$.

Level 1 (Standard)

Q1: Simplify the ratio 6:14 A) 3:6 B) 4:7 C) 7:3 D) 3:7

Q2: Simplify the ratio 15:30 A) 6:10 B) 5:9 C) 5:10 D) 10:5

Q3: Simplify the ratio 12:21 A) 4:6 B) 4:7 C) 5:7 D) 7:4

Q4: Simplify the ratio 8:36 A) 9:2 B) 3:9 C) 2:8 D) 2:9

Q5: Simplify the ratio 8:24 A) 3:6 B) 2:5 C) 6:2 D) 2:6

Q6: Simplify the ratio 9:18 A) 6:3 B) 4:6 C) 3:6 D) 3:5

Q7: Simplify the ratio 8:28 A) 2:6 B) 7:2 C) 2:7 D) 3:7

Q8: Simplify the ratio 12:21 A) 4:6 B) 4:7 C) 5:7 D) 7:4

Q9: Simplify the ratio 15:24 A) 8:5 B) 5:7 C) 6:8 D) 5:8

Q10: Simplify the ratio 15:30 A) 5:9 B) 6:10 C) 10:5 D) 5:10

Q11: Simplify the ratio 12:27 A) 4:9 B) 5:9 C) 4:8 D) 9:4

Q12: Simplify the ratio 9:30 A) 4:10 B) 3:9 C) 3:10 D) 10:3

Q13: Simplify the ratio 6:18 A) 4:9 B) 3:9 C) 9:3 D) 3:8

Q14: Simplify the ratio 15:21 A) 6:7 B) 5:7 C) 5:6 D) 7:5

Q15: Simplify the ratio 10:16 A) 6:8 B) 5:7 C) 5:8 D) 8:5

Q16: Simplify the ratio 20:40 A) 10:5 B) 6:10 C) 5:9 D) 5:10

Q17: Simplify the ratio 6:18 A) 3:8 B) 3:9 C) 9:3 D) 4:9

Q18: Simplify the ratio 12:28 A) 3:6 B) 7:3 C) 4:7 D) 3:7

Q19: Simplify the ratio 12:40 A) 4:10 B) 3:10 C) 3:9 D) 10:3

Q20: Simplify the ratio 12:24 A) 4:8 B) 8:4 C) 5:8 D) 4:7

Q21: Simplify the ratio 12:24 A) 5:8 B) 4:8 C) 8:4 D) 4:7

Q22: Simplify the ratio 10:16 A) 5:8 B) 5:7 C) 8:5 D) 6:8

Q23: Simplify the ratio 4:20 A) 3:10 B) 2:9 C) 2:10 D) 10:2

Q24: Simplify the ratio 10:16 A) 6:8 B) 5:8 C) 5:7 D) 8:5

Q25: Simplify the ratio 10:20 A) 5:10 B) 10:5 C) 6:10 D) 5:9

Q26: Simplify the ratio 16:36 A) 5:9 B) 4:9 C) 9:4 D) 4:8

Q27: Simplify the ratio 8:14 A) 7:4 B) 5:7 C) 4:7 D) 4:6

Q28: Simplify the ratio 8:24 A) 3:6 B) 6:2 C) 2:5 D) 2:6

Q29: Simplify the ratio 6:14 A) 3:6 B) 4:7 C) 3:7 D) 7:3

Q30: Simplify the ratio 10:16 A) 5:8 B) 8:5 C) 6:8 D) 5:7

Q31: Simplify the ratio 8:24 A) 6:2 B) 3:6 C) 2:6 D) 2:5

Q32: Simplify the ratio 12:30 A) 4:9 B) 10:4 C) 5:10 D) 4:10

Q33: Simplify the ratio 6:12 A) 3:5 B) 4:6 C) 3:6 D) 6:3

Q34: Simplify the ratio 12:24 A) 5:8 B) 8:4 C) 4:8 D) 4:7

Q35: Simplify the ratio 20:36 A) 5:8 B) 5:9 C) 6:9 D) 9:5

Q36: Simplify the ratio 16:24 A) 5:6 B) 6:4 C) 4:5 D) 4:6

Q37: Simplify the ratio 20:36 A) 9:5 B) 6:9 C) 5:9 D) 5:8

Q38: Simplify the ratio 9:18 A) 3:6 B) 6:3 C) 4:6 D) 3:5

Q39: Simplify the ratio 4:20 A) 3:10 B) 2:9 C) 2:10 D) 10:2

Q40: Simplify the ratio 8:12 A) 6:4 B) 4:6 C) 4:5 D) 5:6

Q41: Simplify the ratio 6:16 A) 3:7 B) 3:8 C) 4:8 D) 8:3

Q42: Simplify the ratio 15:18 A) 5:5 B) 5:6 C) 6:6 D) 6:5

Q43: Simplify the ratio 15:30 A) 10:5 B) 5:10 C) 6:10 D) 5:9

Q44: Simplify the ratio 8:40 A) 10:2 B) 2:9 C) 2:10 D) 3:10

Q45: Simplify the ratio 10:14 A) 5:7 B) 7:5 C) 5:6 D) 6:7

Q46: Simplify the ratio 16:24 A) 4:6 B) 4:5 C) 6:4 D) 5:6

Q47: Simplify the ratio 12:32 A) 4:8 B) 3:8 C) 8:3 D) 3:7

Q48: Simplify the ratio 20:24 A) 6:5 B) 5:5 C) 5:6 D) 6:6

Q49: Simplify the ratio 4:16 A) 8:2 B) 2:8 C) 3:8 D) 2:7

Q50: Simplify the ratio 15:24 A) 8:5 B) 6:8 C) 5:7 D) 5:8

Q51: Simplify the ratio 12:27 A) 9:4 B) 4:8 C) 4:9 D) 5:9

Q52: Simplify the ratio 6:21 A) 2:7 B) 7:2 C) 3:7 D) 2:6

Q53: Simplify the ratio 4:12 A) 6:2 B) 2:6 C) 2:5 D) 3:6

Q54: Simplify the ratio 8:18 A) 4:9 B) 4:8 C) 9:4 D) 5:9

Q55: Simplify the ratio 4:20 A) 2:10 B) 2:9 C) 3:10 D) 10:2

Q56: Simplify the ratio 9:21 A) 3:7 B) 3:6 C) 7:3 D) 4:7

Q57: Simplify the ratio 6:12 A) 3:6 B) 4:6 C) 6:3 D) 3:5

Q58: Simplify the ratio 8:18 A) 4:8 B) 4:9 C) 9:4 D) 5:9

Q59: Simplify the ratio 20:40 A) 6:10 B) 5:10 C) 5:9 D) 10:5

Q60: Simplify the ratio 6:16 A) 3:8 B) 4:8 C) 8:3 D) 3:7

Q61: Simplify the ratio 12:27 A) 9:4 B) 4:9 C) 5:9 D) 4:8

Q62: Simplify the ratio 16:32 A) 4:8 B) 5:8 C) 4:7 D) 8:4

Q63: Simplify the ratio 9:27 A) 3:9 B) 9:3 C) 3:8 D) 4:9

Q64: Simplify the ratio 9:24 A) 3:8 B) 3:7 C) 8:3 D) 4:8

Q65: Simplify the ratio 4:20 A) 2:9 B) 2:10 C) 3:10 D) 10:2

Q66: Simplify the ratio 15:21 A) 7:5 B) 5:7 C) 5:6 D) 6:7

Q67: Simplify the ratio 10:18 A) 5:8 B) 9:5 C) 5:9 D) 6:9

Q68: Simplify the ratio 9:27 A) 3:8 B) 4:9 C) 9:3 D) 3:9

Q69: Simplify the ratio 20:40 A) 10:5 B) 5:10 C) 6:10 D) 5:9

Q70: Simplify the ratio 16:40 A) 10:4 B) 5:10 C) 4:9 D) 4:10

Q71: Simplify the ratio 16:28 A) 4:6 B) 7:4 C) 5:7 D) 4:7

Q72: Simplify the ratio 8:18 A) 5:9 B) 9:4 C) 4:8 D) 4:9

Q73: Simplify the ratio 12:40 A) 3:10 B) 4:10 C) 3:9 D) 10:3

Q74: Simplify the ratio 20:36 A) 6:9 B) 5:9 C) 5:8 D) 9:5

Q75: Simplify the ratio 15:18 A) 6:5 B) 6:6 C) 5:6 D) 5:5

Q76: Simplify the ratio 9:24 A) 3:7 B) 3:8 C) 8:3 D) 4:8

Q77: Simplify the ratio 15:24 A) 5:7 B) 6:8 C) 8:5 D) 5:8

Q78: Simplify the ratio 12:18 A) 6:4 B) 4:5 C) 5:6 D) 4:6

Q79: Simplify the ratio 8:32 A) 8:2 B) 2:7 C) 3:8 D) 2:8

Q80: Simplify the ratio 6:20 A) 3:10 B) 4:10 C) 3:9 D) 10:3

Q81: Simplify the ratio 15:21 A) 6:7 B) 5:6 C) 5:7 D) 7:5

Q82: Simplify the ratio 20:24 A) 5:6 B) 6:6 C) 5:5 D) 6:5

Q83: Simplify the ratio 20:24 A) 6:6 B) 5:5 C) 5:6 D) 6:5

Q84: Simplify the ratio 4:20 A) 2:10 B) 3:10 C) 2:9 D) 10:2

Q85: Simplify the ratio 6:18 A) 3:9 B) 9:3 C) 3:8 D) 4:9

Q86: Simplify the ratio 12:30 A) 10:4 B) 4:10 C) 5:10 D) 4:9

Q87: Simplify the ratio 12:24 A) 4:8 B) 4:7 C) 5:8 D) 8:4

Q88: Simplify the ratio 6:21 A) 3:7 B) 7:2 C) 2:6 D) 2:7

Q89: Simplify the ratio 6:21 A) 2:7 B) 2:6 C) 3:7 D) 7:2

Q90: Simplify the ratio 10:20 A) 6:10 B) 5:10 C) 10:5 D) 5:9

Q91: Simplify the ratio 20:40 A) 5:9 B) 5:10 C) 6:10 D) 10:5

Q92: Simplify the ratio 10:16 A) 5:8 B) 6:8 C) 5:7 D) 8:5

Q93: Simplify the ratio 4:16 A) 8:2 B) 3:8 C) 2:8 D) 2:7

Q94: Simplify the ratio 20:40 A) 5:10 B) 6:10 C) 10:5 D) 5:9

Q95: Simplify the ratio 15:27 A) 5:8 B) 6:9 C) 5:9 D) 9:5

Q96: Simplify the ratio 6:16 A) 3:7 B) 8:3 C) 3:8 D) 4:8

Q97: Simplify the ratio 12:36 A) 9:3 B) 3:9 C) 4:9 D) 3:8

Q98: Simplify the ratio 8:32 A) 8:2 B) 2:8 C) 2:7 D) 3:8

Q99: Simplify the ratio 10:20 A) 10:5 B) 6:10 C) 5:10 D) 5:9

Q100: Simplify the ratio 12:18 A) 4:5 B) 4:6 C) 6:4 D) 5:6

Level 2 (Advanced)Q1: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 1:2:3 D) 3:2:1Q2: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 3:2:1 C) 1:3:2 D) 2:4:6Q3: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 1:2:3 D) 3:2:1Q4: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 1:3:2 C) 1:2:3 D) 2:4:6Q5: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 2:4:6 C) 3:2:1 D) 1:3:2Q6: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 1:3:2 C) 3:2:1 D) 2:4:6Q7: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 2:4:6 C) 3:2:1 D) 1:3:2Q8: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 2:4:6 C) 3:2:1 D) 1:2:3Q9: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 3:2:1 C) 2:4:6 D) 1:2:3Q10: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 1:3:2 C) 1:2:3 D) 2:4:6Q11: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 2:4:6 C) 1:2:3 D) 1:3:2Q12: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 2:4:6 C) 1:2:3 D) 3:2:1Q13: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 1:3:2 C) 2:4:6 D) 3:2:1Q14: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 3:2:1 C) 1:3:2 D) 1:2:3Q15: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 2:4:6 C) 1:3:2 D) 3:2:1Q16: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 3:2:1 C) 2:4:6 D) 1:3:2Q17: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:2:3 C) 3:2:1 D) 1:3:2Q18: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 2:4:6 C) 1:3:2 D) 1:2:3

- Q19: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 2:4:6 C) 1:2:3 D) 1:3:2
- Q20: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 1:2:3 C) 3:2:1 D) 2:4:6
- Q21: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 1:3:2 C) 2:4:6 D) 3:2:1
- Q22: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 1:2:3 C) 2:4:6 D) 1:3:2
- Q23: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 1:2:3 C) 2:4:6 D) 3:2:1
- Q24: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 2:4:6 C) 3:2:1 D) 1:2:3
- Q25: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 3:2:1 D) 1:2:3
- Q26: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 1:2:3 C) 2:4:6 D) 3:2:1
- Q27: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 1:2:3 D) 3:2:1
- Q28: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 2:4:6 C) 1:2:3 D) 1:3:2
- Q29: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 2:4:6 C) 1:3:2 D) 1:2:3
- Q30: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 3:2:1 B) 2:4:6 C) 1:2:3 D) 1:3:2
- Q31: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 3:2:1 C) 1:2:3 D) 2:4:6
- Q32: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:2:3 C) 3:2:1 D) 1:3:2
- Q33: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:2:3 C) 1:3:2 D) 3:2:1
- Q34: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 3:2:1 D) 1:2:3
- Q35: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 1:2:3 D) 3:2:1
- Q36: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:2:3 B) 3:2:1 C) 1:3:2 D) 2:4:6
- Q37: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 2:4:6 C) 3:2:1 D) 1:2:3
- Q38: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 1:3:2 B) 3:2:1 C) 2:4:6 D) 1:2:3
- Q39: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 1:2:3 D) 3:2:1
- Q40: If $A:B = 1:2$ and $B:C = 2:3$, then $A:B:C$ is: A) 2:4:6 B) 1:3:2 C) 1:2:3 D) 3:2:1
- Q41: If 2 workers can build a wall in 5 days, how many days for 1 worker? A) 20 B) 10 C) 2.5 D) 7
- Q42: If 5 workers can build a wall in 4 days, how many days for 1 worker? A) 40 B) 9 C) 20 D) 0.8
- Q43: If 3 workers can build a wall in 6 days, how many days for 1 worker? A) 2.0 B) 18 C) 36 D) 9
- Q44: If 3 workers can build a wall in 6 days, how many days for 1 worker? A) 2.0 B) 9 C) 18 D) 36
- Q45: If 2 workers can build a wall in 4 days, how many days for 1 worker? A) 16 B) 2.0 C) 6 D) 8
- Q46: If 4 workers can build a wall in 6 days, how many days for 1 worker? A) 1.5 B) 48 C) 24 D) 10
- Q47: If 4 workers can build a wall in 3 days, how many days for 1 worker? A) 12 B) 24 C) 7 D) 0.8
- Q48: If 2 workers can build a wall in 5 days, how many days for 1 worker? A) 20 B) 10 C) 7 D) 2.5
- Q49: If 5 workers can build a wall in 5 days, how many days for 1 worker? A) 10 B) 1.0 C) 50 D) 25
- Q50: If 5 workers can build a wall in 3 days, how many days for 1 worker? A) 8 B) 15 C) 30 D) 0.6

Topic 5: Financial Arithmetic

Explanation: Mathematical concepts used in finance, such as calculating profit, loss, taxes, and interest.

Solved Examples:

1. Profit = Selling Price - Cost Price.
2. Loss = Cost Price - Selling Price.
3. Simple Interest = $(P * R * T) / 100$.
4. Selling Price = Cost + Profit.

Level 1 (Standard)

- Q1: If Cost is 430 and Sale is 440, find the Profit. A) 430 B) 10 C) 20 D) 0
- Q2: If Cost is 340 and Sale is 440, find the Profit. A) 90 B) 100 C) 110 D) 340
- Q3: If Cost is 400 and Sale is 420, find the Profit. A) 30 B) 400 C) 10 D) 20
- Q4: If Cost is 100 and Sale is 150, find the Profit. A) 100 B) 40 C) 50 D) 60
- Q5: If Cost is 350 and Sale is 440, find the Profit. A) 90 B) 100 C) 350 D) 80
- Q6: If Cost is 370 and Sale is 440, find the Profit. A) 80 B) 370 C) 60 D) 70
- Q7: If Cost is 270 and Sale is 290, find the Profit. A) 30 B) 270 C) 20 D) 10
- Q8: If Cost is 190 and Sale is 280, find the Profit. A) 190 B) 90 C) 100 D) 80
- Q9: If Cost is 290 and Sale is 360, find the Profit. A) 290 B) 60 C) 70 D) 80
- Q10: If Cost is 150 and Sale is 220, find the Profit. A) 60 B) 150 C) 80 D) 70
- Q11: If Cost is 290 and Sale is 320, find the Profit. A) 40 B) 20 C) 290 D) 30
- Q12: If Cost is 100 and Sale is 130, find the Profit. A) 30 B) 20 C) 40 D) 100
- Q13: If Cost is 200 and Sale is 260, find the Profit. A) 60 B) 200 C) 50 D) 70
- Q14: If Cost is 170 and Sale is 180, find the Profit. A) 10 B) 170 C) 20 D) 0
- Q15: If Cost is 430 and Sale is 450, find the Profit. A) 30 B) 20 C) 430 D) 10
- Q16: If Cost is 410 and Sale is 490, find the Profit. A) 410 B) 90 C) 80 D) 70
- Q17: If Cost is 460 and Sale is 490, find the Profit. A) 460 B) 40 C) 30 D) 20
- Q18: If Cost is 160 and Sale is 260, find the Profit. A) 110 B) 90 C) 160 D) 100
- Q19: If Cost is 120 and Sale is 130, find the Profit. A) 0 B) 120 C) 10 D) 20
- Q20: If Cost is 330 and Sale is 400, find the Profit. A) 330 B) 60 C) 70 D) 80
- Q21: If Cost is 450 and Sale is 520, find the Profit. A) 60 B) 70 C) 450 D) 80
- Q22: If Cost is 360 and Sale is 420, find the Profit. A) 360 B) 70 C) 60 D) 50
- Q23: If Cost is 170 and Sale is 260, find the Profit. A) 100 B) 80 C) 170 D) 90
- Q24: If Cost is 430 and Sale is 440, find the Profit. A) 0 B) 20 C) 10 D) 430

- Q25: If Cost is 280 and Sale is 330, find the Profit. A) 280 B) 60 C) 50 D) 40
- Q26: If Cost is 100 and Sale is 160, find the Profit. A) 60 B) 50 C) 100 D) 70
- Q27: If Cost is 490 and Sale is 530, find the Profit. A) 40 B) 30 C) 50 D) 490
- Q28: If Cost is 220 and Sale is 310, find the Profit. A) 220 B) 80 C) 90 D) 100
- Q29: If Cost is 360 and Sale is 370, find the Profit. A) 10 B) 360 C) 0 D) 20
- Q30: If Cost is 500 and Sale is 510, find the Profit. A) 500 B) 20 C) 10 D) 0
- Q31: If Cost is 290 and Sale is 310, find the Profit. A) 290 B) 20 C) 10 D) 30
- Q32: If Cost is 360 and Sale is 440, find the Profit. A) 70 B) 90 C) 360 D) 80
- Q33: If Cost is 150 and Sale is 160, find the Profit. A) 10 B) 150 C) 0 D) 20
- Q34: If Cost is 330 and Sale is 410, find the Profit. A) 90 B) 330 C) 70 D) 80
- Q35: If Cost is 420 and Sale is 450, find the Profit. A) 40 B) 20 C) 30 D) 420
- Q36: If Cost is 370 and Sale is 400, find the Profit. A) 30 B) 20 C) 370 D) 40
- Q37: If Cost is 300 and Sale is 370, find the Profit. A) 70 B) 300 C) 80 D) 60
- Q38: If Cost is 270 and Sale is 310, find the Profit. A) 50 B) 30 C) 270 D) 40
- Q39: If Cost is 470 and Sale is 490, find the Profit. A) 470 B) 10 C) 20 D) 30
- Q40: If Cost is 380 and Sale is 460, find the Profit. A) 380 B) 80 C) 90 D) 70
- Q41: If Cost is 440 and Sale is 500, find the Profit. A) 60 B) 50 C) 440 D) 70
- Q42: If Cost is 390 and Sale is 440, find the Profit. A) 60 B) 40 C) 390 D) 50
- Q43: If Cost is 290 and Sale is 390, find the Profit. A) 90 B) 110 C) 290 D) 100
- Q44: If Cost is 190 and Sale is 210, find the Profit. A) 20 B) 10 C) 190 D) 30
- Q45: If Cost is 420 and Sale is 430, find the Profit. A) 420 B) 10 C) 20 D) 0
- Q46: If Cost is 110 and Sale is 180, find the Profit. A) 80 B) 70 C) 60 D) 110
- Q47: If Cost is 160 and Sale is 240, find the Profit. A) 90 B) 70 C) 160 D) 80
- Q48: If Cost is 100 and Sale is 110, find the Profit. A) 100 B) 0 C) 10 D) 20
- Q49: If Cost is 350 and Sale is 410, find the Profit. A) 350 B) 70 C) 50 D) 60
- Q50: If Cost is 140 and Sale is 150, find the Profit. A) 0 B) 20 C) 140 D) 10
- Q51: If Cost is 180 and Sale is 200, find the Profit. A) 30 B) 180 C) 20 D) 10
- Q52: If Cost is 390 and Sale is 400, find the Profit. A) 10 B) 390 C) 0 D) 20
- Q53: If Cost is 350 and Sale is 430, find the Profit. A) 350 B) 70 C) 90 D) 80
- Q54: If Cost is 210 and Sale is 270, find the Profit. A) 50 B) 210 C) 60 D) 70
- Q55: If Cost is 270 and Sale is 350, find the Profit. A) 270 B) 70 C) 80 D) 90
- Q56: If Cost is 280 and Sale is 360, find the Profit. A) 80 B) 90 C) 70 D) 280

- Q57: If Cost is 130 and Sale is 150, find the Profit. A) 130 B) 20 C) 30 D) 10
- Q58: If Cost is 360 and Sale is 400, find the Profit. A) 360 B) 40 C) 30 D) 50
- Q59: If Cost is 340 and Sale is 400, find the Profit. A) 60 B) 70 C) 50 D) 340
- Q60: If Cost is 320 and Sale is 420, find the Profit. A) 100 B) 320 C) 110 D) 90
- Q61: If Cost is 210 and Sale is 220, find the Profit. A) 20 B) 10 C) 210 D) 0
- Q62: If Cost is 110 and Sale is 160, find the Profit. A) 110 B) 40 C) 60 D) 50
- Q63: If Cost is 470 and Sale is 510, find the Profit. A) 470 B) 30 C) 40 D) 50
- Q64: If Cost is 250 and Sale is 300, find the Profit. A) 40 B) 60 C) 250 D) 50
- Q65: If Cost is 320 and Sale is 350, find the Profit. A) 20 B) 320 C) 30 D) 40
- Q66: If Cost is 320 and Sale is 420, find the Profit. A) 320 B) 110 C) 90 D) 100
- Q67: If Cost is 460 and Sale is 560, find the Profit. A) 460 B) 100 C) 90 D) 110
- Q68: If Cost is 410 and Sale is 500, find the Profit. A) 410 B) 100 C) 90 D) 80
- Q69: If Cost is 120 and Sale is 140, find the Profit. A) 30 B) 10 C) 120 D) 20
- Q70: If Cost is 110 and Sale is 200, find the Profit. A) 80 B) 100 C) 90 D) 110
- Q71: If Cost is 490 and Sale is 530, find the Profit. A) 30 B) 40 C) 490 D) 50
- Q72: If Cost is 300 and Sale is 310, find the Profit. A) 20 B) 0 C) 300 D) 10
- Q73: If Cost is 170 and Sale is 260, find the Profit. A) 170 B) 100 C) 90 D) 80
- Q74: If Cost is 350 and Sale is 450, find the Profit. A) 350 B) 90 C) 110 D) 100
- Q75: If Cost is 300 and Sale is 330, find the Profit. A) 30 B) 300 C) 20 D) 40
- Q76: If Cost is 500 and Sale is 580, find the Profit. A) 500 B) 90 C) 80 D) 70
- Q77: If Cost is 240 and Sale is 340, find the Profit. A) 100 B) 90 C) 240 D) 110
- Q78: If Cost is 280 and Sale is 310, find the Profit. A) 280 B) 30 C) 20 D) 40
- Q79: If Cost is 460 and Sale is 530, find the Profit. A) 60 B) 80 C) 460 D) 70
- Q80: If Cost is 490 and Sale is 530, find the Profit. A) 30 B) 490 C) 50 D) 40
- Q81: If Cost is 310 and Sale is 330, find the Profit. A) 20 B) 10 C) 310 D) 30
- Q82: If Cost is 200 and Sale is 220, find the Profit. A) 200 B) 20 C) 30 D) 10
- Q83: If Cost is 260 and Sale is 300, find the Profit. A) 260 B) 40 C) 30 D) 50
- Q84: If Cost is 320 and Sale is 370, find the Profit. A) 60 B) 320 C) 40 D) 50
- Q85: If Cost is 130 and Sale is 200, find the Profit. A) 70 B) 80 C) 60 D) 130
- Q86: If Cost is 200 and Sale is 270, find the Profit. A) 70 B) 60 C) 80 D) 200
- Q87: If Cost is 440 and Sale is 510, find the Profit. A) 60 B) 440 C) 80 D) 70
- Q88: If Cost is 200 and Sale is 280, find the Profit. A) 70 B) 90 C) 200 D) 80

Q89: If Cost is 110 and Sale is 170, find the Profit. A) 70 B) 110 C) 60 D) 50

Q90: If Cost is 310 and Sale is 340, find the Profit. A) 40 B) 20 C) 30 D) 310

Q91: If Cost is 450 and Sale is 470, find the Profit. A) 20 B) 30 C) 450 D) 10

Q92: If Cost is 110 and Sale is 180, find the Profit. A) 70 B) 110 C) 60 D) 80

Q93: If Cost is 200 and Sale is 210, find the Profit. A) 0 B) 200 C) 20 D) 10

Q94: If Cost is 220 and Sale is 290, find the Profit. A) 70 B) 80 C) 220 D) 60

Q95: If Cost is 290 and Sale is 330, find the Profit. A) 30 B) 50 C) 290 D) 40

Q96: If Cost is 460 and Sale is 550, find the Profit. A) 100 B) 80 C) 90 D) 460

Q97: If Cost is 330 and Sale is 340, find the Profit. A) 0 B) 20 C) 10 D) 330

Q98: If Cost is 500 and Sale is 600, find the Profit. A) 110 B) 90 C) 100 D) 500

Q99: If Cost is 110 and Sale is 150, find the Profit. A) 40 B) 110 C) 30 D) 50

Q100: If Cost is 150 and Sale is 230, find the Profit. A) 150 B) 70 C) 90 D) 80

Level 2 (Advanced)

Q1: Find Simple Interest for Principal=4000, Rate=9%, Time=4 yrs. A) 5440 B) 1540 C) 720 D) 1440

Q2: Find Simple Interest for Principal=2000, Rate=7%, Time=5 yrs. A) 2700 B) 800 C) 700 D) 350

Q3: Find Simple Interest for Principal=1000, Rate=6%, Time=5 yrs. A) 150 B) 300 C) 400 D) 1300

Q4: Find Simple Interest for Principal=3000, Rate=2%, Time=3 yrs. A) 90 B) 280 C) 3180 D) 180

Q5: Find Simple Interest for Principal=5000, Rate=8%, Time=3 yrs. A) 6200 B) 600 C) 1300 D) 1200

Q6: Find Simple Interest for Principal=5000, Rate=9%, Time=3 yrs. A) 675 B) 1350 C) 1450 D) 6350

Q7: Find Simple Interest for Principal=4000, Rate=2%, Time=3 yrs. A) 120 B) 4240 C) 340 D) 240

Q8: Find Simple Interest for Principal=2000, Rate=5%, Time=3 yrs. A) 150 B) 2300 C) 300 D) 400

Q9: Find Simple Interest for Principal=1000, Rate=8%, Time=3 yrs. A) 240 B) 1240 C) 120 D) 340

Q10: Find Simple Interest for Principal=3000, Rate=3%, Time=2 yrs. A) 180 B) 280 C) 90 D) 3180

Q11: Find Simple Interest for Principal=5000, Rate=7%, Time=4 yrs. A) 700 B) 1500 C) 1400 D) 6400

Q12: Find Simple Interest for Principal=1000, Rate=8%, Time=3 yrs. A) 1240 B) 240 C) 120 D) 340

Q13: Find Simple Interest for Principal=1000, Rate=3%, Time=4 yrs. A) 120 B) 1120 C) 220 D) 60

Q14: Find Simple Interest for Principal=4000, Rate=9%, Time=5 yrs. A) 900 B) 1900 C) 5800 D) 1800

Q15: Find Simple Interest for Principal=4000, Rate=4%, Time=5 yrs. A) 4800 B) 400 C) 900 D) 800

Q16: Find Simple Interest for Principal=2000, Rate=2%, Time=5 yrs. A) 2200 B) 200 C) 300 D) 100

Q17: Find Simple Interest for Principal=3000, Rate=6%, Time=4 yrs. A) 3720 B) 720 C) 820 D) 360

Q18: Find Simple Interest for Principal=2000, Rate=4%, Time=4 yrs. A) 320 B) 160 C) 420 D) 2320

- Q19: Find Simple Interest for Principal=4000, Rate=3%, Time=3 yrs. A) 180 B) 460 C) 360 D) 4360
- Q20: Find Simple Interest for Principal=4000, Rate=10%, Time=4 yrs. A) 1700 B) 5600 C) 800 D) 1600
- Q21: Find Simple Interest for Principal=1000, Rate=6%, Time=5 yrs. A) 1300 B) 300 C) 150 D) 400
- Q22: Find Simple Interest for Principal=2000, Rate=5%, Time=3 yrs. A) 400 B) 150 C) 2300 D) 300
- Q23: Find Simple Interest for Principal=4000, Rate=2%, Time=4 yrs. A) 320 B) 160 C) 4320 D) 420
- Q24: Find Simple Interest for Principal=4000, Rate=10%, Time=5 yrs. A) 2100 B) 6000 C) 1000 D) 2000
- Q25: Find Simple Interest for Principal=2000, Rate=7%, Time=5 yrs. A) 350 B) 800 C) 700 D) 2700
- Q26: Find Simple Interest for Principal=5000, Rate=10%, Time=4 yrs. A) 7000 B) 2100 C) 2000 D) 1000
- Q27: Find Simple Interest for Principal=1000, Rate=6%, Time=2 yrs. A) 220 B) 60 C) 120 D) 1120
- Q28: Find Simple Interest for Principal=5000, Rate=5%, Time=3 yrs. A) 5750 B) 750 C) 375 D) 850
- Q29: Find Simple Interest for Principal=3000, Rate=8%, Time=2 yrs. A) 240 B) 3480 C) 580 D) 480
- Q30: Find Simple Interest for Principal=2000, Rate=2%, Time=3 yrs. A) 120 B) 220 C) 2120 D) 60
- Q31: Find Simple Interest for Principal=3000, Rate=8%, Time=5 yrs. A) 1200 B) 4200 C) 1300 D) 600
- Q32: Find Simple Interest for Principal=2000, Rate=9%, Time=4 yrs. A) 820 B) 720 C) 360 D) 2720
- Q33: Find Simple Interest for Principal=1000, Rate=10%, Time=4 yrs. A) 1400 B) 400 C) 500 D) 200
- Q34: Find Simple Interest for Principal=4000, Rate=3%, Time=4 yrs. A) 480 B) 580 C) 4480 D) 240
- Q35: Find Simple Interest for Principal=3000, Rate=6%, Time=4 yrs. A) 3720 B) 360 C) 720 D) 820
- Q36: Find Simple Interest for Principal=1000, Rate=8%, Time=4 yrs. A) 1320 B) 320 C) 160 D) 420
- Q37: Find Simple Interest for Principal=4000, Rate=6%, Time=4 yrs. A) 960 B) 480 C) 1060 D) 4960
- Q38: Find Simple Interest for Principal=1000, Rate=5%, Time=4 yrs. A) 200 B) 1200 C) 100 D) 300
- Q39: Find Simple Interest for Principal=3000, Rate=10%, Time=4 yrs. A) 4200 B) 1200 C) 600 D) 1300
- Q40: Find Simple Interest for Principal=3000, Rate=3%, Time=5 yrs. A) 450 B) 3450 C) 225 D) 550
- Q41: Calculate 2.5% Zakat on an amount of Rs. 45000: A) 1125 B) 0 C) 11250 D) 2250
- Q42: Calculate 2.5% Zakat on an amount of Rs. 15000: A) 3750 B) 375 C) 0 D) 750
- Q43: Calculate 2.5% Zakat on an amount of Rs. 29000: A) 725 B) 7250 C) 1450 D) 0
- Q44: Calculate 2.5% Zakat on an amount of Rs. 26000: A) 0 B) 650 C) 1300 D) 6500
- Q45: Calculate 2.5% Zakat on an amount of Rs. 40000: A) 2000 B) 0 C) 10000 D) 1000
- Q46: Calculate 2.5% Zakat on an amount of Rs. 40000: A) 0 B) 1000 C) 10000 D) 2000
- Q47: Calculate 2.5% Zakat on an amount of Rs. 34000: A) 0 B) 850 C) 1700 D) 8500
- Q48: Calculate 2.5% Zakat on an amount of Rs. 19000: A) 4750 B) 0 C) 475 D) 950
- Q49: Calculate 2.5% Zakat on an amount of Rs. 36000: A) 9000 B) 1800 C) 900 D) 0
- Q50: Calculate 2.5% Zakat on an amount of Rs. 21000: A) 0 B) 5250 C) 1050 D) 525

Topic 6: Squares and Square Roots

Explanation: A square is a number multiplied by itself. A square root is the inverse operation.

Solved Examples:

1. $5^2 = 25$.
2. $\sqrt{49} = 7$.
3. Square of 10 is 100.
4. $8 * 8 = 64$.

Level 1 (Standard)

Q1: What is the square of 12? A) 156 B) 144 C) 1728 D) 288

Q2: What is the square of 2? A) 6 B) 4 C) 8 D) 0

Q3: What is the square of 14? A) 2744 B) 196 C) 210 D) 392

Q4: What is the square of 9? A) 90 B) 162 C) 729 D) 81

Q5: What is the square of 12? A) 144 B) 156 C) 288 D) 1728

Q6: What is the square of 9? A) 162 B) 90 C) 81 D) 729

Q7: What is the square of 10? A) 100 B) 1000 C) 110 D) 200

Q8: What is the square of 2? A) 8 B) 4 C) 0 D) 6

Q9: What is the square of 2? A) 8 B) 0 C) 6 D) 4

Q10: What is the square of 5? A) 125 B) 25 C) 50 D) 30

Q11: What is the square of 3? A) 9 B) 18 C) 12 D) 27

Q12: What is the square of 4? A) 20 B) 32 C) 64 D) 16

Q13: What is the square of 6? A) 36 B) 72 C) 42 D) 216

Q14: What is the square of 8? A) 64 B) 72 C) 512 D) 128

Q15: What is the square of 7? A) 56 B) 343 C) 49 D) 98

Q16: What is the square of 2? A) 0 B) 6 C) 4 D) 8

Q17: What is the square of 5? A) 50 B) 125 C) 30 D) 25

Q18: What is the square of 3? A) 18 B) 9 C) 27 D) 12

Q19: What is the square of 8? A) 128 B) 64 C) 512 D) 72

Q20: What is the square of 11? A) 242 B) 1331 C) 132 D) 121

Q21: What is the square of 12? A) 288 B) 156 C) 1728 D) 144

Q22: What is the square of 8? A) 72 B) 64 C) 128 D) 512

Q23: What is the square of 10? A) 1000 B) 100 C) 200 D) 110

Q24: What is the square of 5? A) 125 B) 30 C) 50 D) 25

Q25: What is the square of 12? A) 1728 B) 288 C) 156 D) 144

Q26: What is the square of 11? A) 132 B) 121 C) 1331 D) 242

Q27: What is the square of 10? A) 110 B) 1000 C) 200 D) 100

Q28: What is the square of 14? A) 210 B) 2744 C) 392 D) 196

Q29: What is the square of 11? A) 132 B) 121 C) 1331 D) 242

Q30: What is the square of 7? A) 56 B) 49 C) 98 D) 343

Q31: What is the square of 2? A) 6 B) 8 C) 4 D) 0

Q32: What is the square of 7? A) 343 B) 56 C) 49 D) 98

Q33: What is the square of 12? A) 156 B) 288 C) 1728 D) 144

Q34: What is the square of 4? A) 32 B) 64 C) 20 D) 16

Q35: What is the square of 13? A) 182 B) 2197 C) 338 D) 169

Q36: What is the square of 9? A) 81 B) 729 C) 162 D) 90

Q37: What is the square of 2? A) 8 B) 6 C) 0 D) 4

Q38: What is the square of 15? A) 225 B) 3375 C) 450 D) 240

Q39: What is the square of 8? A) 128 B) 72 C) 512 D) 64

Q40: What is the square of 2? A) 0 B) 4 C) 6 D) 8

Q41: What is the square of 7? A) 49 B) 343 C) 98 D) 56

Q42: What is the square of 13? A) 2197 B) 182 C) 338 D) 169

Q43: What is the square of 4? A) 64 B) 20 C) 32 D) 16

Q44: What is the square of 9? A) 81 B) 729 C) 162 D) 90

Q45: What is the square of 14? A) 392 B) 196 C) 210 D) 2744

Q46: What is the square of 3? A) 27 B) 9 C) 12 D) 18

Q47: What is the square of 15? A) 240 B) 3375 C) 225 D) 450

Q48: What is the square of 11? A) 121 B) 242 C) 132 D) 1331

Q49: What is the square of 4? A) 20 B) 16 C) 32 D) 64

Q50: What is the square of 15? A) 225 B) 240 C) 3375 D) 450

Q51: What is the square of 3? A) 12 B) 9 C) 18 D) 27

Q52: What is the square of 3? A) 9 B) 18 C) 27 D) 12

Q53: What is the square of 2? A) 4 B) 0 C) 6 D) 8

Q54: What is the square of 10? A) 110 B) 1000 C) 200 D) 100

Q55: What is the square of 9? A) 81 B) 162 C) 729 D) 90

Q56: What is the square of 4? A) 32 B) 20 C) 64 D) 16

Q57: What is the square of 10? A) 110 B) 100 C) 200 D) 1000

Q58: What is the square of 3? A) 12 B) 9 C) 18 D) 27

Q59: What is the square of 7? A) 98 B) 343 C) 49 D) 56

Q60: What is the square of 10? A) 110 B) 100 C) 200 D) 1000

Q61: What is the square of 3? A) 9 B) 12 C) 18 D) 27

Q62: What is the square of 3? A) 9 B) 12 C) 18 D) 27

Q63: What is the square of 3? A) 18 B) 9 C) 12 D) 27

Q64: What is the square of 3? A) 12 B) 9 C) 18 D) 27

Q65: What is the square of 10? A) 110 B) 200 C) 1000 D) 100

Q66: What is the square of 10? A) 100 B) 1000 C) 110 D) 200

Q67: What is the square of 7? A) 98 B) 343 C) 49 D) 56

Q68: What is the square of 15? A) 225 B) 240 C) 450 D) 3375

Q69: What is the square of 13? A) 169 B) 338 C) 2197 D) 182

Q70: What is the square of 3? A) 18 B) 27 C) 12 D) 9

Q71: What is the square of 2? A) 4 B) 0 C) 8 D) 6

Q72: What is the square of 10? A) 200 B) 100 C) 1000 D) 110

Q73: What is the square of 2? A) 6 B) 4 C) 0 D) 8

Q74: What is the square of 15? A) 240 B) 450 C) 225 D) 3375

Q75: What is the square of 11? A) 1331 B) 132 C) 121 D) 242

Q76: What is the square of 15? A) 240 B) 450 C) 225 D) 3375

Q77: What is the square of 15? A) 225 B) 3375 C) 240 D) 450

Q78: What is the square of 3? A) 18 B) 12 C) 9 D) 27

Q79: What is the square of 14? A) 210 B) 196 C) 392 D) 2744

Q80: What is the square of 9? A) 162 B) 729 C) 90 D) 81

Q81: What is the square of 10? A) 100 B) 200 C) 110 D) 1000

Q82: What is the square of 10? A) 1000 B) 100 C) 110 D) 200

Q83: What is the square of 13? A) 182 B) 2197 C) 169 D) 338

Q84: What is the square of 12? A) 144 B) 288 C) 1728 D) 156

Q85: What is the square of 8? A) 64 B) 72 C) 512 D) 128

Q86: What is the square of 7? A) 343 B) 49 C) 98 D) 56

Q87: What is the square of 4? A) 16 B) 32 C) 20 D) 64

Q88: What is the square of 15? A) 450 B) 225 C) 3375 D) 240

Q89: What is the square of 5? A) 25 B) 125 C) 30 D) 50

Q90: What is the square of 12? A) 288 B) 144 C) 1728 D) 156

Q91: What is the square of 13? A) 169 B) 2197 C) 182 D) 338

Q92: What is the square of 13? A) 2197 B) 182 C) 338 D) 169

Q93: What is the square of 11? A) 121 B) 242 C) 132 D) 1331

Q94: What is the square of 15? A) 450 B) 240 C) 225 D) 3375

Q95: What is the square of 2? A) 8 B) 6 C) 4 D) 0

Q96: What is the square of 12? A) 156 B) 288 C) 1728 D) 144

Q97: What is the square of 14? A) 196 B) 210 C) 2744 D) 392

Q98: What is the square of 4? A) 64 B) 32 C) 20 D) 16

Q99: What is the square of 5? A) 125 B) 30 C) 50 D) 25

Q100: What is the square of 3? A) 9 B) 27 C) 12 D) 18

Level 2 (Advanced)

Q1: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 7 B) 5 C) 25 D) 6

Q2: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 10 B) 11 C) 14 D) 100

Q3: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 14 B) 17 C) 169 D) 13

Q4: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 6 B) 7 C) 5 D) 25

Q5: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 169 B) 13 C) 14 D) 17

Q6: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 14 B) 11 C) 10 D) 100

Q7: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 25 B) 5 C) 6 D) 7

Q8: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 100 B) 11 C) 14 D) 10

Q9: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 17 B) 169 C) 13 D) 14

Q10: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 169 B) 17 C) 13 D) 14

Q11: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 100 B) 11 C) 10 D) 14

Q12: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 100 B) 14 C) 11 D) 10

Q13: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 100 B) 14 C) 10 D) 11

Q14: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 169 B) 14 C) 13 D) 17

Q15: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 13 B) 14 C) 169 D) 17

Q16: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 7 B) 25 C) 5 D) 6

Q17: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 13 B) 169 C) 17 D) 14

Q18: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 10 B) 100 C) 11 D) 14

Q19: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 14 B) 17 C) 169 D) 13

Q20: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 100 B) 10 C) 11 D) 14

Q21: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 25 B) 5 C) 7 D) 6

Q22: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 10 B) 14 C) 100 D) 11

Q23: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 5 B) 7 C) 25 D) 6

Q24: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 11 B) 100 C) 14 D) 10

Q25: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 14 B) 11 C) 100 D) 10

Q26: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 17 B) 169 C) 14 D) 13

Q27: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 5 B) 25 C) 6 D) 7

Q28: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 5 B) 25 C) 6 D) 7

Q29: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 17 B) 169 C) 14 D) 13

Q30: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 5 B) 7 C) 6 D) 25

Q31: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 7 B) 6 C) 25 D) 5

Q32: In a right triangle, if base=3 and prep=4, hypotenuse is? A) 7 B) 5 C) 25 D) 6

Q33: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 13 B) 14 C) 169 D) 17

Q34: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 10 B) 14 C) 11 D) 100

Q35: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 100 B) 14 C) 10 D) 11

Q36: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 17 B) 169 C) 14 D) 13

Q37: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 17 B) 169 C) 14 D) 13

Q38: In a right triangle, if base=5 and prep=12, hypotenuse is? A) 14 B) 169 C) 17 D) 13

Q39: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 14 B) 10 C) 100 D) 11

Q40: In a right triangle, if base=6 and prep=8, hypotenuse is? A) 10 B) 11 C) 14 D) 100

Q41: What is the square of 0.1? A) 0.2 B) 0.05 C) 0.01 D) 0.1

Q42: What is the square of 0.2? A) 0.04 B) 0.4 C) 0.1 D) 0

Q43: What is the square of 0.2? A) 0.04 B) 0.4 C) 0 D) 0.1

Q44: What is the square of 0.1? A) 0.1 B) 0.05 C) 0.01 D) 0.2

Q45: What is the square of 0.1? A) 0.2 B) 0.01 C) 0.05 D) 0.1

Q46: What is the square of 0.3? A) 0.09 B) 0.9 C) 0.15 D) 0.6

Q47: What is the square of 0.2? A) 0.4 B) 0.04 C) 0.1 D) 0

Q48: What is the square of 0.2? A) 0.1 B) 0 C) 0.04 D) 0.4

Q49: What is the square of 0.2? A) 0.4 B) 0.1 C) 0 D) 0.04

Q50: What is the square of 0.5? A) 1.0 B) 0.25 C) 2.5 D) 0

Topic 7: Number Sequence and Patterns

Explanation: A sequence is an ordered list of numbers following a specific rule or pattern.

Solved Examples:

1. Arithmetic: 2, 4, 6, 8 (adds 2).
2. Geometric: 2, 4, 8, 16 (multiplies by 2).
3. Next in 1, 3, 5 is 7.
4. Rule $3n$ for $n=1,2,3$ is 3, 6, 9.

Level 1 (Standard)

Q1: Next term in 5, 7, 9, ...? A) 12 B) 15 C) 11 D) 9

Q2: Next term in 10, 15, 20, ...? A) 35 B) 25 C) 26 D) 20

Q3: Next term in 4, 6, 8, ...? A) 11 B) 10 C) 14 D) 8

Q4: Next term in 4, 8, 12, ...? A) 16 B) 12 C) 17 D) 24

Q5: Next term in 10, 14, 18, ...? A) 22 B) 30 C) 18 D) 23

Q6: Next term in 6, 11, 16, ...? A) 16 B) 31 C) 21 D) 22

Q7: Next term in 4, 7, 10, ...? A) 13 B) 10 C) 14 D) 19

Q8: Next term in 3, 7, 11, ...? A) 15 B) 11 C) 16 D) 23

Q9: Next term in 6, 10, 14, ...? A) 19 B) 18 C) 14 D) 26

Q10: Next term in 3, 5, 7, ...? A) 10 B) 13 C) 9 D) 7

Q11: Next term in 5, 7, 9, ...? A) 12 B) 9 C) 15 D) 11

Q12: Next term in 10, 15, 20, ...? A) 20 B) 35 C) 25 D) 26

Q13: Next term in 9, 14, 19, ...? A) 24 B) 19 C) 34 D) 25

Q14: Next term in 4, 8, 12, ...? A) 12 B) 16 C) 24 D) 17

Q15: Next term in 7, 11, 15, ...? A) 20 B) 27 C) 15 D) 19

Q16: Next term in 10, 13, 16, ...? A) 16 B) 19 C) 25 D) 20

Q17: Next term in 3, 6, 9, ...? A) 9 B) 12 C) 13 D) 18

Q18: Next term in 4, 9, 14, ...? A) 14 B) 29 C) 19 D) 20

Q19: Next term in 6, 9, 12, ...? A) 16 B) 21 C) 12 D) 15

Q20: Next term in 9, 13, 17, ...? A) 21 B) 17 C) 22 D) 29

Q21: Next term in 1, 3, 5, ...? A) 11 B) 8 C) 7 D) 5

Q22: Next term in 5, 8, 11, ...? A) 14 B) 15 C) 11 D) 20

Q23: Next term in 6, 8, 10, ...? A) 16 B) 12 C) 13 D) 10

Q24: Next term in 9, 14, 19, ...? A) 24 B) 34 C) 25 D) 19

Q25: Next term in 8, 10, 12, ...? A) 12 B) 14 C) 18 D) 15

Q26: Next term in 4, 6, 8, ...? A) 11 B) 14 C) 10 D) 8

Q27: Next term in 3, 6, 9, ...? A) 13 B) 12 C) 18 D) 9

Q28: Next term in 4, 9, 14, ...? A) 20 B) 19 C) 29 D) 14

Q29: Next term in 8, 13, 18, ...? A) 24 B) 18 C) 23 D) 33

Q30: Next term in 7, 9, 11, ...? A) 17 B) 11 C) 13 D) 14

Q31: Next term in 10, 13, 16, ...? A) 25 B) 19 C) 16 D) 20

Q32: Next term in 10, 13, 16, ...? A) 16 B) 20 C) 25 D) 19

Q33: Next term in 3, 8, 13, ...? A) 28 B) 19 C) 13 D) 18

Q34: Next term in 2, 5, 8, ...? A) 11 B) 12 C) 8 D) 17

Q35: Next term in 8, 11, 14, ...? A) 14 B) 17 C) 23 D) 18

Q36: Next term in 10, 13, 16, ...? A) 25 B) 20 C) 19 D) 16

Q37: Next term in 8, 10, 12, ...? A) 14 B) 12 C) 18 D) 15

Q38: Next term in 3, 5, 7, ...? A) 7 B) 10 C) 13 D) 9

Q39: Next term in 3, 5, 7, ...? A) 7 B) 9 C) 13 D) 10

Q40: Next term in 9, 11, 13, ...? A) 13 B) 19 C) 16 D) 15

Q41: Next term in 10, 12, 14, ...? A) 16 B) 17 C) 14 D) 20

Q42: Next term in 6, 8, 10, ...? A) 10 B) 13 C) 12 D) 16

Q43: Next term in 7, 11, 15, ...? A) 15 B) 27 C) 20 D) 19

Q44: Next term in 5, 10, 15, ...? A) 15 B) 30 C) 20 D) 21

Q45: Next term in 10, 15, 20, ...? A) 26 B) 35 C) 25 D) 20

Q46: Next term in 1, 3, 5, ...? A) 5 B) 11 C) 8 D) 7

Q47: Next term in 6, 11, 16, ...? A) 22 B) 31 C) 21 D) 16

Q48: Next term in 7, 11, 15, ...? A) 19 B) 20 C) 27 D) 15

Q49: Next term in 10, 14, 18, ...? A) 22 B) 23 C) 30 D) 18

Q50: Next term in 4, 9, 14, ...? A) 14 B) 20 C) 19 D) 29

Q51: Next term in 9, 14, 19, ...? A) 24 B) 34 C) 25 D) 19

Q52: Next term in 7, 10, 13, ...? A) 17 B) 22 C) 13 D) 16

Q53: Next term in 8, 11, 14, ...? A) 14 B) 18 C) 23 D) 17

Q54: Next term in 6, 8, 10, ...? A) 10 B) 12 C) 16 D) 13

Q55: Next term in 2, 5, 8, ...? A) 11 B) 12 C) 8 D) 17

Q56: Next term in 2, 4, 6, ...? A) 12 B) 9 C) 8 D) 6

- Q57: Next term in 2, 4, 6, ...? A) 8 B) 6 C) 9 D) 12
- Q58: Next term in 10, 12, 14, ...? A) 16 B) 20 C) 14 D) 17
- Q59: Next term in 8, 10, 12, ...? A) 14 B) 18 C) 12 D) 15
- Q60: Next term in 4, 6, 8, ...? A) 14 B) 10 C) 8 D) 11
- Q61: Next term in 1, 5, 9, ...? A) 21 B) 13 C) 9 D) 14
- Q62: Next term in 3, 5, 7, ...? A) 9 B) 13 C) 10 D) 7
- Q63: Next term in 7, 12, 17, ...? A) 32 B) 22 C) 17 D) 23
- Q64: Next term in 2, 4, 6, ...? A) 8 B) 9 C) 12 D) 6
- Q65: Next term in 6, 10, 14, ...? A) 26 B) 18 C) 14 D) 19
- Q66: Next term in 8, 13, 18, ...? A) 18 B) 33 C) 24 D) 23
- Q67: Next term in 7, 9, 11, ...? A) 17 B) 14 C) 11 D) 13
- Q68: Next term in 6, 8, 10, ...? A) 12 B) 13 C) 16 D) 10
- Q69: Next term in 8, 13, 18, ...? A) 18 B) 24 C) 23 D) 33
- Q70: Next term in 8, 13, 18, ...? A) 18 B) 33 C) 24 D) 23
- Q71: Next term in 5, 7, 9, ...? A) 12 B) 11 C) 9 D) 15
- Q72: Next term in 4, 8, 12, ...? A) 12 B) 16 C) 17 D) 24
- Q73: Next term in 5, 8, 11, ...? A) 20 B) 15 C) 14 D) 11
- Q74: Next term in 6, 8, 10, ...? A) 12 B) 10 C) 16 D) 13
- Q75: Next term in 6, 9, 12, ...? A) 16 B) 21 C) 15 D) 12
- Q76: Next term in 8, 11, 14, ...? A) 23 B) 17 C) 14 D) 18
- Q77: Next term in 5, 8, 11, ...? A) 20 B) 11 C) 14 D) 15
- Q78: Next term in 10, 14, 18, ...? A) 30 B) 18 C) 22 D) 23
- Q79: Next term in 2, 7, 12, ...? A) 18 B) 27 C) 12 D) 17
- Q80: Next term in 8, 12, 16, ...? A) 20 B) 28 C) 21 D) 16
- Q81: Next term in 8, 11, 14, ...? A) 23 B) 17 C) 18 D) 14
- Q82: Next term in 10, 13, 16, ...? A) 25 B) 20 C) 16 D) 19
- Q83: Next term in 8, 10, 12, ...? A) 18 B) 14 C) 15 D) 12
- Q84: Next term in 8, 10, 12, ...? A) 12 B) 14 C) 15 D) 18
- Q85: Next term in 1, 4, 7, ...? A) 11 B) 10 C) 7 D) 16
- Q86: Next term in 6, 10, 14, ...? A) 26 B) 19 C) 18 D) 14
- Q87: Next term in 4, 8, 12, ...? A) 16 B) 17 C) 12 D) 24
- Q88: Next term in 6, 9, 12, ...? A) 12 B) 15 C) 16 D) 21

Q89: Next term in 7, 11, 15, ...? A) 19 B) 27 C) 20 D) 15

Q90: Next term in 8, 11, 14, ...? A) 23 B) 17 C) 14 D) 18

Q91: Next term in 2, 6, 10, ...? A) 14 B) 22 C) 10 D) 15

Q92: Next term in 7, 10, 13, ...? A) 22 B) 16 C) 13 D) 17

Q93: Next term in 8, 10, 12, ...? A) 14 B) 12 C) 18 D) 15

Q94: Next term in 3, 7, 11, ...? A) 15 B) 11 C) 16 D) 23

Q95: Next term in 9, 11, 13, ...? A) 16 B) 13 C) 15 D) 19

Q96: Next term in 1, 4, 7, ...? A) 16 B) 10 C) 11 D) 7

Q97: Next term in 8, 12, 16, ...? A) 20 B) 28 C) 21 D) 16

Q98: Next term in 9, 13, 17, ...? A) 29 B) 22 C) 21 D) 17

Q99: Next term in 2, 6, 10, ...? A) 22 B) 14 C) 10 D) 15

Q100: Next term in 5, 9, 13, ...? A) 17 B) 18 C) 25 D) 13

Level 2 (Advanced)

Q1: Next term in geometric sequence: 5, 10, 20, ...? A) 40 B) 42 C) 22 D) 80

Q2: Next term in geometric sequence: 5, 20, 80, ...? A) 84 B) 1280 C) 320 D) 324

Q3: Next term in geometric sequence: 5, 20, 80, ...? A) 324 B) 84 C) 320 D) 1280

Q4: Next term in geometric sequence: 3, 9, 27, ...? A) 81 B) 30 C) 243 D) 84

Q5: Next term in geometric sequence: 4, 16, 64, ...? A) 256 B) 260 C) 1024 D) 68

Q6: Next term in geometric sequence: 4, 12, 36, ...? A) 108 B) 111 C) 324 D) 39

Q7: Next term in geometric sequence: 5, 10, 20, ...? A) 80 B) 22 C) 40 D) 42

Q8: Next term in geometric sequence: 3, 12, 48, ...? A) 196 B) 192 C) 768 D) 52

Q9: Next term in geometric sequence: 3, 6, 12, ...? A) 26 B) 14 C) 24 D) 48

Q10: Next term in geometric sequence: 2, 6, 18, ...? A) 21 B) 57 C) 162 D) 54

Q11: Next term in geometric sequence: 2, 4, 8, ...? A) 18 B) 16 C) 32 D) 10

Q12: Next term in geometric sequence: 2, 8, 32, ...? A) 36 B) 128 C) 132 D) 512

Q13: Next term in geometric sequence: 3, 12, 48, ...? A) 768 B) 192 C) 196 D) 52

Q14: Next term in geometric sequence: 3, 12, 48, ...? A) 768 B) 52 C) 192 D) 196

Q15: Next term in geometric sequence: 4, 12, 36, ...? A) 108 B) 39 C) 111 D) 324

Q16: Next term in geometric sequence: 5, 10, 20, ...? A) 40 B) 80 C) 22 D) 42

Q17: Next term in geometric sequence: 5, 20, 80, ...? A) 320 B) 1280 C) 324 D) 84

Q18: Next term in geometric sequence: 3, 6, 12, ...? A) 24 B) 14 C) 26 D) 48

- Q19: Next term in geometric sequence: 5, 15, 45, ...? A) 48 B) 135 C) 405 D) 138
- Q20: Next term in geometric sequence: 2, 8, 32, ...? A) 128 B) 36 C) 512 D) 132
- Q21: Next term in geometric sequence: 5, 20, 80, ...? A) 1280 B) 324 C) 84 D) 320
- Q22: Next term in geometric sequence: 5, 15, 45, ...? A) 405 B) 48 C) 138 D) 135
- Q23: Next term in geometric sequence: 3, 6, 12, ...? A) 48 B) 26 C) 24 D) 14
- Q24: Next term in geometric sequence: 5, 15, 45, ...? A) 48 B) 405 C) 135 D) 138
- Q25: Next term in geometric sequence: 5, 10, 20, ...? A) 80 B) 42 C) 40 D) 22
- Q26: Next term in geometric sequence: 3, 12, 48, ...? A) 192 B) 768 C) 196 D) 52
- Q27: Next term in geometric sequence: 5, 10, 20, ...? A) 42 B) 22 C) 80 D) 40
- Q28: Next term in geometric sequence: 4, 8, 16, ...? A) 32 B) 34 C) 18 D) 64
- Q29: Next term in geometric sequence: 4, 16, 64, ...? A) 68 B) 260 C) 256 D) 1024
- Q30: Next term in geometric sequence: 2, 4, 8, ...? A) 18 B) 32 C) 10 D) 16
- Q31: Next term in geometric sequence: 3, 6, 12, ...? A) 48 B) 24 C) 26 D) 14
- Q32: Next term in geometric sequence: 5, 20, 80, ...? A) 324 B) 84 C) 1280 D) 320
- Q33: Next term in geometric sequence: 3, 6, 12, ...? A) 14 B) 26 C) 24 D) 48
- Q34: Next term in geometric sequence: 5, 15, 45, ...? A) 135 B) 48 C) 138 D) 405
- Q35: Next term in geometric sequence: 2, 6, 18, ...? A) 57 B) 21 C) 162 D) 54
- Q36: Next term in geometric sequence: 4, 12, 36, ...? A) 324 B) 111 C) 39 D) 108
- Q37: Next term in geometric sequence: 3, 6, 12, ...? A) 48 B) 24 C) 26 D) 14
- Q38: Next term in geometric sequence: 2, 8, 32, ...? A) 128 B) 36 C) 512 D) 132
- Q39: Next term in geometric sequence: 3, 12, 48, ...? A) 52 B) 196 C) 768 D) 192
- Q40: Next term in geometric sequence: 2, 8, 32, ...? A) 128 B) 36 C) 512 D) 132
- Q41: Find the 5th term of the sequence generated by rule $n^2 + 1$. A) 25 B) 11 C) 26 D) 27
- Q42: Find the 7th term of the sequence generated by rule $n^2 + 1$. A) 15 B) 51 C) 49 D) 50
- Q43: Find the 5th term of the sequence generated by rule $n^2 + 1$. A) 27 B) 26 C) 11 D) 25
- Q44: Find the 4th term of the sequence generated by rule $n^2 + 1$. A) 18 B) 16 C) 9 D) 17
- Q45: Find the 5th term of the sequence generated by rule $n^2 + 1$. A) 27 B) 25 C) 11 D) 26
- Q46: Find the 7th term of the sequence generated by rule $n^2 + 1$. A) 51 B) 15 C) 49 D) 50
- Q47: Find the 3th term of the sequence generated by rule $n^2 + 1$. A) 7 B) 9 C) 11 D) 10
- Q48: Find the 7th term of the sequence generated by rule $n^2 + 1$. A) 51 B) 50 C) 15 D) 49
- Q49: Find the 4th term of the sequence generated by rule $n^2 + 1$. A) 18 B) 17 C) 9 D) 16
- Q50: Find the 7th term of the sequence generated by rule $n^2 + 1$. A) 49 B) 50 C) 15 D) 51

Topic 8: Algebraic Expressions

Explanation: Mathematical phrases containing variables, constants, and operators without an equals sign.

Solved Examples:

- $2x + 3$ is an algebraic expression.
- $5y - 2y = 3y$.
- If $x=2$, then $x+4 = 6$.
- The coefficient of $7z$ is 7.

Level 1 (Standard)

Q1: Evaluate $2x + 2$ when $x = 3$ A) 7 B) 8 C) 10 D) 6

Q2: Evaluate $3x + 2$ when $x = 4$ A) 14 B) 16 C) 9 D) 12

Q3: Evaluate $8x + 2$ when $x = 4$ A) 36 B) 14 C) 34 D) 32

Q4: Evaluate $4x + 2$ when $x = 2$ A) 0 B) 8 C) 10 D) 12

Q5: Evaluate $7x + 2$ when $x = 4$ A) 30 B) 28 C) 13 D) 32

Q6: Evaluate $3x + 2$ when $x = 5$ A) 17 B) 10 C) 19 D) 15

Q7: Evaluate $4x + 2$ when $x = 4$ A) 16 B) 18 C) 10 D) 20

Q8: Evaluate $2x + 2$ when $x = 5$ A) 12 B) 14 C) 9 D) 10

Q9: Evaluate $8x + 2$ when $x = 3$ A) 13 B) 26 C) 24 D) 28

Q10: Evaluate $8x + 2$ when $x = 5$ A) 40 B) 42 C) 44 D) 15

Q11: Evaluate $2x + 2$ when $x = 5$ A) 10 B) 12 C) 9 D) 14

Q12: Evaluate $4x + 2$ when $x = 1$ A) 8 B) 4 C) 6 D) 7

Q13: Evaluate $8x + 2$ when $x = 5$ A) 42 B) 15 C) 44 D) 40

Q14: Evaluate $4x + 2$ when $x = 4$ A) 16 B) 10 C) 18 D) 20

Q15: Evaluate $6x + 2$ when $x = 1$ A) 6 B) 10 C) 9 D) 8

Q16: Evaluate $8x + 2$ when $x = 1$ A) 12 B) 11 C) 10 D) 8

Q17: Evaluate $3x + 2$ when $x = 1$ A) 6 B) 3 C) 7 D) 5

Q18: Evaluate $7x + 2$ when $x = 4$ A) 13 B) 28 C) 30 D) 32

Q19: Evaluate $3x + 2$ when $x = 5$ A) 15 B) 19 C) 10 D) 17

Q20: Evaluate $7x + 2$ when $x = 4$ A) 32 B) 13 C) 28 D) 30

Q21: Evaluate $4x + 2$ when $x = 5$ A) 24 B) 22 C) 20 D) 11

Q22: Evaluate $8x + 2$ when $x = 5$ A) 40 B) 42 C) 15 D) 44

Q23: Evaluate $7x + 2$ when $x = 1$ A) 7 B) 10 C) 9 D) 11

Q24: Evaluate $6x + 2$ when $x = 1$ A) 6 B) 9 C) 10 D) 8

Q25: Evaluate $6x + 2$ when $x = 4$ A) 12 B) 28 C) 26 D) 24Q26: Evaluate $6x + 2$ when $x = 2$ A) 12 B) 14 C) 16 D) 10Q27: Evaluate $8x + 2$ when $x = 5$ A) 42 B) 40 C) 15 D) 44Q28: Evaluate $7x + 2$ when $x = 4$ A) 28 B) 32 C) 13 D) 30Q29: Evaluate $6x + 2$ when $x = 4$ A) 24 B) 26 C) 12 D) 28Q30: Evaluate $6x + 2$ when $x = 5$ A) 32 B) 34 C) 30 D) 13Q31: Evaluate $6x + 2$ when $x = 3$ A) 20 B) 11 C) 18 D) 22Q32: Evaluate $8x + 2$ when $x = 3$ A) 13 B) 26 C) 28 D) 24Q33: Evaluate $5x + 2$ when $x = 5$ A) 27 B) 12 C) 25 D) 29Q34: Evaluate $5x + 2$ when $x = 4$ A) 20 B) 11 C) 24 D) 22Q35: Evaluate $4x + 2$ when $x = 5$ A) 20 B) 11 C) 24 D) 22Q36: Evaluate $4x + 2$ when $x = 1$ A) 4 B) 7 C) 6 D) 8Q37: Evaluate $8x + 2$ when $x = 3$ A) 13 B) 24 C) 28 D) 26Q38: Evaluate $6x + 2$ when $x = 5$ A) 13 B) 34 C) 32 D) 30Q39: Evaluate $5x + 2$ when $x = 3$ A) 19 B) 10 C) 17 D) 15Q40: Evaluate $4x + 2$ when $x = 5$ A) 24 B) 11 C) 22 D) 20Q41: Evaluate $8x + 2$ when $x = 3$ A) 13 B) 24 C) 28 D) 26Q42: Evaluate $6x + 2$ when $x = 2$ A) 10 B) 12 C) 16 D) 14Q43: Evaluate $8x + 2$ when $x = 4$ A) 36 B) 34 C) 14 D) 32Q44: Evaluate $6x + 2$ when $x = 3$ A) 11 B) 18 C) 22 D) 20Q45: Evaluate $2x + 2$ when $x = 1$ A) 4 B) 5 C) 2 D) 6Q46: Evaluate $5x + 2$ when $x = 1$ A) 8 B) 7 C) 9 D) 5Q47: Evaluate $7x + 2$ when $x = 4$ A) 32 B) 13 C) 28 D) 30Q48: Evaluate $4x + 2$ when $x = 5$ A) 24 B) 22 C) 11 D) 20Q49: Evaluate $3x + 2$ when $x = 1$ A) 7 B) 5 C) 3 D) 6Q50: Evaluate $3x + 2$ when $x = 4$ A) 9 B) 14 C) 12 D) 16Q51: Evaluate $3x + 2$ when $x = 3$ A) 13 B) 8 C) 9 D) 11Q52: Evaluate $6x + 2$ when $x = 4$ A) 12 B) 24 C) 26 D) 28Q53: Evaluate $6x + 2$ when $x = 4$ A) 28 B) 12 C) 26 D) 24Q54: Evaluate $6x + 2$ when $x = 2$ A) 16 B) 14 C) 12 D) 10Q55: Evaluate $6x + 2$ when $x = 5$ A) 13 B) 34 C) 32 D) 30Q56: Evaluate $4x + 2$ when $x = 4$ A) 16 B) 18 C) 10 D) 20

Q57: Evaluate $2x + 2$ when $x = 4$ A) 10 B) 12 C) 8 D) 0Q58: Evaluate $3x + 2$ when $x = 3$ A) 9 B) 11 C) 8 D) 13Q59: Evaluate $8x + 2$ when $x = 3$ A) 26 B) 28 C) 13 D) 24Q60: Evaluate $6x + 2$ when $x = 2$ A) 12 B) 16 C) 14 D) 10Q61: Evaluate $3x + 2$ when $x = 3$ A) 8 B) 11 C) 13 D) 9Q62: Evaluate $2x + 2$ when $x = 1$ A) 5 B) 4 C) 6 D) 2Q63: Evaluate $8x + 2$ when $x = 3$ A) 28 B) 13 C) 24 D) 26Q64: Evaluate $4x + 2$ when $x = 4$ A) 20 B) 16 C) 18 D) 10Q65: Evaluate $3x + 2$ when $x = 5$ A) 19 B) 10 C) 17 D) 15Q66: Evaluate $6x + 2$ when $x = 4$ A) 12 B) 26 C) 28 D) 24Q67: Evaluate $5x + 2$ when $x = 5$ A) 29 B) 12 C) 25 D) 27Q68: Evaluate $2x + 2$ when $x = 3$ A) 8 B) 7 C) 10 D) 6Q69: Evaluate $2x + 2$ when $x = 4$ A) 12 B) 8 C) 0 D) 10Q70: Evaluate $7x + 2$ when $x = 3$ A) 21 B) 12 C) 23 D) 25Q71: Evaluate $4x + 2$ when $x = 4$ A) 20 B) 18 C) 10 D) 16Q72: Evaluate $4x + 2$ when $x = 4$ A) 16 B) 20 C) 10 D) 18Q73: Evaluate $6x + 2$ when $x = 4$ A) 24 B) 28 C) 12 D) 26Q74: Evaluate $6x + 2$ when $x = 3$ A) 20 B) 11 C) 18 D) 22Q75: Evaluate $7x + 2$ when $x = 2$ A) 11 B) 18 C) 14 D) 16Q76: Evaluate $4x + 2$ when $x = 3$ A) 14 B) 9 C) 16 D) 12Q77: Evaluate $8x + 2$ when $x = 1$ A) 11 B) 10 C) 8 D) 12Q78: Evaluate $6x + 2$ when $x = 3$ A) 22 B) 11 C) 20 D) 18Q79: Evaluate $5x + 2$ when $x = 2$ A) 9 B) 10 C) 14 D) 12Q80: Evaluate $6x + 2$ when $x = 5$ A) 34 B) 32 C) 13 D) 30Q81: Evaluate $6x + 2$ when $x = 2$ A) 14 B) 16 C) 12 D) 10Q82: Evaluate $5x + 2$ when $x = 5$ A) 12 B) 29 C) 27 D) 25Q83: Evaluate $6x + 2$ when $x = 5$ A) 34 B) 13 C) 32 D) 30Q84: Evaluate $7x + 2$ when $x = 5$ A) 39 B) 37 C) 14 D) 35Q85: Evaluate $7x + 2$ when $x = 5$ A) 39 B) 37 C) 14 D) 35Q86: Evaluate $6x + 2$ when $x = 5$ A) 34 B) 30 C) 13 D) 32Q87: Evaluate $8x + 2$ when $x = 2$ A) 12 B) 20 C) 16 D) 18Q88: Evaluate $5x + 2$ when $x = 3$ A) 17 B) 15 C) 19 D) 10

Q89: Evaluate $3x + 2$ when $x = 2$ A) 6 B) 10 C) 7 D) 8Q90: Evaluate $2x + 2$ when $x = 5$ A) 10 B) 12 C) 9 D) 14Q91: Evaluate $6x + 2$ when $x = 2$ A) 10 B) 14 C) 16 D) 12Q92: Evaluate $4x + 2$ when $x = 1$ A) 8 B) 4 C) 6 D) 7Q93: Evaluate $7x + 2$ when $x = 3$ A) 23 B) 25 C) 12 D) 21Q94: Evaluate $5x + 2$ when $x = 2$ A) 9 B) 14 C) 12 D) 10Q95: Evaluate $2x + 2$ when $x = 4$ A) 0 B) 12 C) 8 D) 10Q96: Evaluate $3x + 2$ when $x = 2$ A) 7 B) 10 C) 8 D) 6Q97: Evaluate $5x + 2$ when $x = 5$ A) 27 B) 25 C) 29 D) 12Q98: Evaluate $8x + 2$ when $x = 4$ A) 34 B) 36 C) 14 D) 32Q99: Evaluate $8x + 2$ when $x = 1$ A) 10 B) 8 C) 12 D) 11Q100: Evaluate $5x + 2$ when $x = 5$ A) 25 B) 12 C) 29 D) 27**Level 2 (Advanced)**Q1: Complete the identity: $x^2 - 1 =$ A) $(x + 1)^2$ B) $(x - 1)(x + 1)$ C) $(x - 1)^2$ D) $(x - 1)(x - 1)$ Q2: Factorize: $x^2 - 9$ A) $(x - 3)^2$ B) $(x - 3)(x + 3)$ C) $(x + 3)^2$ D) $x(x - 9)$ Q3: Factorize: $x^2 - 36$ A) $(x - 6)^2$ B) $(x - 6)(x + 6)$ C) $(x + 6)^2$ D) $x(x - 36)$ Q4: Factorize: $x^2 - 9$ A) $(x - 3)(x + 3)$ B) $x(x - 9)$ C) $(x - 3)^2$ D) $(x + 3)^2$ Q5: Factorize: $x^2 - 16$ A) $x(x - 16)$ B) $(x - 4)(x + 4)$ C) $(x - 4)^2$ D) $(x + 4)^2$ Q6: Factorize: $x^2 - 25$ A) $(x - 5)^2$ B) $(x - 5)(x + 5)$ C) $x(x - 25)$ D) $(x + 5)^2$ Q7: Factorize: $x^2 - 36$ A) $(x - 6)(x + 6)$ B) $(x + 6)^2$ C) $x(x - 36)$ D) $(x - 6)^2$ Q8: Factorize: $x^2 - 4$ A) $(x - 2)^2$ B) $(x + 2)^2$ C) $x(x - 4)$ D) $(x - 2)(x + 2)$ Q9: Factorize: $x^2 - 25$ A) $(x - 5)(x + 5)$ B) $(x + 5)^2$ C) $(x - 5)^2$ D) $x(x - 25)$ Q10: Factorize: $x^2 - 4$ A) $(x + 2)^2$ B) $(x - 2)(x + 2)$ C) $x(x - 4)$ D) $(x - 2)^2$ Q11: Factorize: $x^2 - 25$ A) $x(x - 25)$ B) $(x + 5)^2$ C) $(x - 5)^2$ D) $(x - 5)(x + 5)$ Q12: Factorize: $x^2 - 9$ A) $(x - 3)^2$ B) $(x + 3)^2$ C) $x(x - 9)$ D) $(x - 3)(x + 3)$ Q13: Factorize: $x^2 - 25$ A) $x(x - 25)$ B) $(x - 5)^2$ C) $(x - 5)(x + 5)$ D) $(x + 5)^2$ Q14: Factorize: $x^2 - 36$ A) $(x - 6)(x + 6)$ B) $(x + 6)^2$ C) $x(x - 36)$ D) $(x - 6)^2$ Q15: Factorize: $x^2 - 4$ A) $(x + 2)^2$ B) $(x - 2)(x + 2)$ C) $x(x - 4)$ D) $(x - 2)^2$ Q16: Factorize: $x^2 - 9$ A) $x(x - 9)$ B) $(x + 3)^2$ C) $(x - 3)(x + 3)$ D) $(x - 3)^2$ Q17: Factorize: $x^2 - 25$ A) $(x - 5)(x + 5)$ B) $x(x - 25)$ C) $(x - 5)^2$ D) $(x + 5)^2$ Q18: Factorize: $x^2 - 16$ A) $x(x - 16)$ B) $(x + 4)^2$ C) $(x - 4)(x + 4)$ D) $(x - 4)^2$

Q19: Factorize: $x^2 - 9$ A) $x(x - 9)$ B) $(x - 3)^2$ C) $(x + 3)^2$ D) $(x - 3)(x + 3)$

Q20: Factorize: $x^2 - 4$ A) $(x - 2)(x + 2)$ B) $(x + 2)^2$ C) $(x - 2)^2$ D) $x(x - 4)$

Q21: Factorize: $x^2 - 36$ A) $x(x - 36)$ B) $(x - 6)^2$ C) $(x + 6)^2$ D) $(x - 6)(x + 6)$

Q22: Factorize: $x^2 - 9$ A) $(x - 3)(x + 3)$ B) $x(x - 9)$ C) $(x + 3)^2$ D) $(x - 3)^2$

Q23: Factorize: $x^2 - 25$ A) $(x + 5)^2$ B) $(x - 5)(x + 5)$ C) $(x - 5)^2$ D) $x(x - 25)$

Q24: Factorize: $x^2 - 36$ A) $(x + 6)^2$ B) $(x - 6)^2$ C) $x(x - 36)$ D) $(x - 6)(x + 6)$

Q25: Factorize: $x^2 - 36$ A) $x(x - 36)$ B) $(x + 6)^2$ C) $(x - 6)(x + 6)$ D) $(x - 6)^2$

Q26: Factorize: $x^2 - 9$ A) $x(x - 9)$ B) $(x - 3)^2$ C) $(x + 3)^2$ D) $(x - 3)(x + 3)$

Q27: Factorize: $x^2 - 4$ A) $(x + 2)^2$ B) $x(x - 4)$ C) $(x - 2)(x + 2)$ D) $(x - 2)^2$

Q28: Factorize: $x^2 - 16$ A) $(x - 4)^2$ B) $(x + 4)^2$ C) $x(x - 16)$ D) $(x - 4)(x + 4)$

Q29: Factorize: $x^2 - 25$ A) $(x + 5)^2$ B) $x(x - 25)$ C) $(x - 5)(x + 5)$ D) $(x - 5)^2$

Q30: Factorize: $x^2 - 36$ A) $(x - 6)(x + 6)$ B) $(x + 6)^2$ C) $x(x - 36)$ D) $(x - 6)^2$

Q31: Factorize: $x^2 - 4$ A) $x(x - 4)$ B) $(x + 2)^2$ C) $(x - 2)^2$ D) $(x - 2)(x + 2)$

Q32: Factorize: $x^2 - 16$ A) $(x + 4)^2$ B) $(x - 4)^2$ C) $(x - 4)(x + 4)$ D) $x(x - 16)$

Q33: Factorize: $x^2 - 36$ A) $x(x - 36)$ B) $(x + 6)^2$ C) $(x - 6)^2$ D) $(x - 6)(x + 6)$

Q34: Factorize: $x^2 - 9$ A) $x(x - 9)$ B) $(x - 3)^2$ C) $(x + 3)^2$ D) $(x - 3)(x + 3)$

Q35: Factorize: $x^2 - 16$ A) $(x - 4)^2$ B) $(x - 4)(x + 4)$ C) $(x + 4)^2$ D) $x(x - 16)$

Q36: Factorize: $x^2 - 9$ A) $(x - 3)^2$ B) $(x + 3)^2$ C) $x(x - 9)$ D) $(x - 3)(x + 3)$

Q37: Factorize: $x^2 - 25$ A) $(x - 5)(x + 5)$ B) $x(x - 25)$ C) $(x - 5)^2$ D) $(x + 5)^2$

Q38: Factorize: $x^2 - 16$ A) $x(x - 16)$ B) $(x - 4)^2$ C) $(x - 4)(x + 4)$ D) $(x + 4)^2$

Q39: Factorize: $x^2 - 36$ A) $(x + 6)^2$ B) $(x - 6)(x + 6)$ C) $(x - 6)^2$ D) $x(x - 36)$

Q40: Factorize: $x^2 - 36$ A) $(x - 6)(x + 6)$ B) $x(x - 36)$ C) $(x + 6)^2$ D) $(x - 6)^2$

Q41: Expand: $(x + 3)^2$ A) $x^2 + 3x + 9$ B) $x^2 + 9$ C) $x^2 - 6x + 9$ D) $x^2 + 6x + 9$

Q42: Expand: $(x + 5)^2$ A) $x^2 + 5x + 25$ B) $x^2 - 10x + 25$ C) $x^2 + 25$ D) $x^2 + 10x + 25$

Q43: Expand: $(x + 5)^2$ A) $x^2 + 25$ B) $x^2 + 5x + 25$ C) $x^2 + 10x + 25$ D) $x^2 - 10x + 25$

Q44: Expand: $(x + 4)^2$ A) $x^2 - 8x + 16$ B) $x^2 + 16$ C) $x^2 + 8x + 16$ D) $x^2 + 4x + 16$

Q45: Expand: $(x + 4)^2$ A) $x^2 - 8x + 16$ B) $x^2 + 4x + 16$ C) $x^2 + 8x + 16$ D) $x^2 + 16$

Q46: Expand: $(x + 4)^2$ A) $x^2 + 4x + 16$ B) $x^2 - 8x + 16$ C) $x^2 + 8x + 16$ D) $x^2 + 16$

Q47: Expand: $(x + 4)^2$ A) $x^2 - 8x + 16$ B) $x^2 + 8x + 16$ C) $x^2 + 4x + 16$ D) $x^2 + 16$

Q48: Expand: $(x + 3)^2$ A) $x^2 + 6x + 9$ B) $x^2 + 9$ C) $x^2 - 6x + 9$ D) $x^2 + 3x + 9$

Q49: Expand: $(x + 5)^2$ A) $x^2 + 5x + 25$ B) $x^2 + 25$ C) $x^2 + 10x + 25$ D) $x^2 - 10x + 25$

Q50: Expand: $(x + 5)^2$ A) $x^2 + 10x + 25$ B) $x^2 - 10x + 25$ C) $x^2 + 25$ D) $x^2 + 5x + 25$

Topic 9: Linear Equation

Explanation: An equation for a straight line, typically written in the form $ax + b = c$, having a maximum degree of 1.

Solved Examples:

- $x + 5 = 10 \rightarrow x = 5$.
- $2y = 8 \rightarrow y = 4$.
- $3z - 1 = 8 \rightarrow z = 3$.
- Linear equations have only one solution.

Level 1 (Standard)

Q1: Solve for x: $4x + 8 = 24$ A) 6 B) 5 C) 3 D) 4

Q2: Solve for x: $4x + 9 = 29$ A) 4 B) 6 C) 7 D) 5

Q3: Solve for x: $4x + 2 = 10$ A) 4 B) 3 C) 2 D) 1

Q4: Solve for x: $5x + 9 = 19$ A) 3 B) 1 C) 2 D) 4

Q5: Solve for x: $4x + 6 = 10$ A) 3 B) 1 C) 2 D) 0

Q6: Solve for x: $5x + 4 = 19$ A) 2 B) 3 C) 4 D) 5

Q7: Solve for x: $4x + 3 = 7$ A) 2 B) 3 C) 1 D) 0

Q8: Solve for x: $2x + 8 = 18$ A) 4 B) 7 C) 6 D) 5

Q9: Solve for x: $3x + 6 = 18$ A) 6 B) 4 C) 5 D) 3

Q10: Solve for x: $2x + 9 = 13$ A) 4 B) 2 C) 1 D) 3

Q11: Solve for x: $5x + 7 = 32$ A) 4 B) 6 C) 7 D) 5

Q12: Solve for x: $2x + 10 = 12$ A) 3 B) 1 C) 2 D) 0

Q13: Solve for x: $2x + 9 = 15$ A) 5 B) 4 C) 2 D) 3

Q14: Solve for x: $3x + 6 = 12$ A) 2 B) 1 C) 4 D) 3

Q15: Solve for x: $4x + 8 = 12$ A) 2 B) 3 C) 1 D) 0

Q16: Solve for x: $4x + 2 = 6$ A) 0 B) 2 C) 3 D) 1

Q17: Solve for x: $4x + 5 = 13$ A) 3 B) 2 C) 4 D) 1

Q18: Solve for x: $3x + 2 = 11$ A) 3 B) 4 C) 5 D) 2

Q19: Solve for x: $2x + 3 = 5$ A) 2 B) 1 C) 0 D) 3

Q20: Solve for x: $2x + 7 = 9$ A) 3 B) 0 C) 2 D) 1

Q21: Solve for x: $3x + 10 = 25$ A) 5 B) 6 C) 4 D) 7

Q22: Solve for x: $4x + 6 = 14$ A) 1 B) 4 C) 3 D) 2

Q23: Solve for x: $2x + 8 = 10$ A) 1 B) 0 C) 2 D) 3

Q24: Solve for x: $5x + 4 = 14$ A) 2 B) 4 C) 1 D) 3

Q25: Solve for x: $4x + 7 = 15$ A) 2 B) 4 C) 3 D) 1Q26: Solve for x: $5x + 1 = 6$ A) 0 B) 2 C) 1 D) 3Q27: Solve for x: $5x + 8 = 18$ A) 4 B) 2 C) 3 D) 1Q28: Solve for x: $2x + 7 = 9$ A) 2 B) 1 C) 3 D) 0Q29: Solve for x: $4x + 9 = 25$ A) 4 B) 5 C) 3 D) 6Q30: Solve for x: $3x + 10 = 16$ A) 2 B) 1 C) 4 D) 3Q31: Solve for x: $2x + 6 = 10$ A) 2 B) 1 C) 3 D) 4Q32: Solve for x: $3x + 3 = 6$ A) 0 B) 2 C) 1 D) 3Q33: Solve for x: $4x + 9 = 13$ A) 0 B) 2 C) 1 D) 3Q34: Solve for x: $5x + 2 = 27$ A) 7 B) 6 C) 4 D) 5Q35: Solve for x: $4x + 8 = 12$ A) 2 B) 0 C) 3 D) 1Q36: Solve for x: $2x + 3 = 7$ A) 2 B) 3 C) 1 D) 4Q37: Solve for x: $5x + 10 = 35$ A) 6 B) 4 C) 5 D) 7Q38: Solve for x: $4x + 5 = 25$ A) 5 B) 7 C) 6 D) 4Q39: Solve for x: $2x + 10 = 12$ A) 0 B) 2 C) 1 D) 3Q40: Solve for x: $2x + 6 = 16$ A) 4 B) 6 C) 7 D) 5Q41: Solve for x: $2x + 5 = 7$ A) 1 B) 0 C) 3 D) 2Q42: Solve for x: $4x + 7 = 23$ A) 3 B) 4 C) 5 D) 6Q43: Solve for x: $3x + 8 = 14$ A) 2 B) 4 C) 1 D) 3Q44: Solve for x: $4x + 7 = 15$ A) 3 B) 2 C) 4 D) 1Q45: Solve for x: $3x + 1 = 4$ A) 0 B) 2 C) 3 D) 1Q46: Solve for x: $5x + 3 = 8$ A) 1 B) 3 C) 0 D) 2Q47: Solve for x: $5x + 10 = 30$ A) 4 B) 3 C) 6 D) 5Q48: Solve for x: $5x + 7 = 22$ A) 2 B) 5 C) 3 D) 4Q49: Solve for x: $2x + 10 = 18$ A) 4 B) 6 C) 3 D) 5Q50: Solve for x: $5x + 9 = 34$ A) 6 B) 7 C) 5 D) 4Q51: Solve for x: $5x + 6 = 11$ A) 2 B) 1 C) 0 D) 3Q52: Solve for x: $3x + 9 = 18$ A) 4 B) 3 C) 2 D) 5Q53: Solve for x: $2x + 4 = 12$ A) 6 B) 5 C) 3 D) 4Q54: Solve for x: $2x + 6 = 16$ A) 7 B) 4 C) 6 D) 5Q55: Solve for x: $5x + 10 = 25$ A) 3 B) 2 C) 4 D) 5Q56: Solve for x: $4x + 3 = 7$ A) 1 B) 2 C) 3 D) 0

Q57: Solve for x: $2x + 8 = 18$ A) 7 B) 5 C) 4 D) 6

Q58: Solve for x: $4x + 10 = 14$ A) 3 B) 1 C) 2 D) 0

Q59: Solve for x: $3x + 9 = 12$ A) 3 B) 1 C) 2 D) 0

Q60: Solve for x: $4x + 5 = 17$ A) 4 B) 5 C) 2 D) 3

Q61: Solve for x: $3x + 10 = 16$ A) 1 B) 2 C) 3 D) 4

Q62: Solve for x: $4x + 4 = 20$ A) 6 B) 4 C) 3 D) 5

Q63: Solve for x: $4x + 2 = 10$ A) 2 B) 1 C) 4 D) 3

Q64: Solve for x: $5x + 4 = 24$ A) 3 B) 6 C) 4 D) 5

Q65: Solve for x: $2x + 5 = 7$ A) 0 B) 2 C) 3 D) 1

Q66: Solve for x: $5x + 8 = 23$ A) 4 B) 3 C) 2 D) 5

Q67: Solve for x: $5x + 7 = 27$ A) 6 B) 5 C) 4 D) 3

Q68: Solve for x: $2x + 5 = 13$ A) 4 B) 5 C) 3 D) 6

Q69: Solve for x: $2x + 2 = 12$ A) 5 B) 7 C) 6 D) 4

Q70: Solve for x: $4x + 5 = 17$ A) 5 B) 2 C) 4 D) 3

Q71: Solve for x: $5x + 4 = 29$ A) 5 B) 7 C) 4 D) 6

Q72: Solve for x: $3x + 6 = 21$ A) 6 B) 7 C) 4 D) 5

Q73: Solve for x: $2x + 1 = 9$ A) 5 B) 6 C) 3 D) 4

Q74: Solve for x: $5x + 6 = 16$ A) 4 B) 2 C) 3 D) 1

Q75: Solve for x: $2x + 1 = 11$ A) 6 B) 4 C) 7 D) 5

Q76: Solve for x: $2x + 2 = 4$ A) 0 B) 1 C) 3 D) 2

Q77: Solve for x: $2x + 3 = 9$ A) 5 B) 3 C) 4 D) 2

Q78: Solve for x: $5x + 5 = 25$ A) 6 B) 4 C) 5 D) 3

Q79: Solve for x: $2x + 5 = 7$ A) 1 B) 0 C) 2 D) 3

Q80: Solve for x: $2x + 5 = 11$ A) 2 B) 3 C) 5 D) 4

Q81: Solve for x: $5x + 4 = 29$ A) 4 B) 6 C) 5 D) 7

Q82: Solve for x: $2x + 3 = 13$ A) 6 B) 4 C) 5 D) 7

Q83: Solve for x: $5x + 5 = 10$ A) 2 B) 0 C) 3 D) 1

Q84: Solve for x: $4x + 8 = 12$ A) 2 B) 0 C) 1 D) 3

Q85: Solve for x: $2x + 7 = 13$ A) 3 B) 5 C) 2 D) 4

Q86: Solve for x: $5x + 10 = 15$ A) 1 B) 0 C) 2 D) 3

Q87: Solve for x: $5x + 2 = 27$ A) 4 B) 7 C) 5 D) 6

Q88: Solve for x: $5x + 2 = 27$ A) 5 B) 7 C) 6 D) 4

Q89: Solve for x: $5x + 1 = 6$ A) 1 B) 2 C) 3 D) 0Q90: Solve for x: $2x + 8 = 14$ A) 5 B) 2 C) 3 D) 4Q91: Solve for x: $5x + 4 = 19$ A) 2 B) 4 C) 3 D) 5Q92: Solve for x: $5x + 2 = 22$ A) 6 B) 3 C) 4 D) 5Q93: Solve for x: $3x + 1 = 16$ A) 5 B) 4 C) 7 D) 6Q94: Solve for x: $2x + 9 = 15$ A) 3 B) 4 C) 2 D) 5Q95: Solve for x: $2x + 1 = 7$ A) 2 B) 5 C) 4 D) 3Q96: Solve for x: $5x + 2 = 12$ A) 3 B) 2 C) 1 D) 4Q97: Solve for x: $3x + 2 = 5$ A) 0 B) 1 C) 3 D) 2Q98: Solve for x: $5x + 10 = 15$ A) 3 B) 1 C) 0 D) 2Q99: Solve for x: $2x + 3 = 5$ A) 3 B) 2 C) 1 D) 0Q100: Solve for x: $3x + 10 = 13$ A) 0 B) 2 C) 3 D) 1**Level 2 (Advanced)**Q1: Solve for y: $3y - 2 = 4$ A) 2 B) 5 C) 0 D) 3Q2: Solve for y: $5y - 4 = 16$ A) 5 B) 0 C) 9 D) 4Q3: Solve for y: $4y - 3 = 9$ A) 4 B) 0 C) 7 D) 3Q4: Solve for y: $4y - 2 = 6$ A) 4 B) 6 C) 3 D) 2Q5: Solve for y: $5y - 3 = 12$ A) 4 B) 3 C) 8 D) 5Q6: Solve for y: $5y - 3 = 12$ A) 4 B) 5 C) 8 D) 3Q7: Solve for y: $5y - 3 = 12$ A) 5 B) 8 C) 4 D) 3Q8: Solve for y: $2y - 2 = 2$ A) 4 B) 0 C) 2 D) 3Q9: Solve for y: $5y - 5 = 20$ A) 0 B) 10 C) 5 D) 6Q10: Solve for y: $4y - 6 = 18$ A) 4 B) 6 C) 7 D) 10Q11: Solve for y: $3y - 6 = 12$ A) 7 B) 9 C) 3 D) 6Q12: Solve for y: $5y - 6 = 24$ A) 11 B) 7 C) 5 D) 6Q13: Solve for y: $4y - 5 = 15$ A) 6 B) 9 C) 4 D) 5Q14: Solve for y: $3y - 2 = 4$ A) 0 B) 3 C) 5 D) 2Q15: Solve for y: $3y - 5 = 10$ A) 3 B) 5 C) 8 D) 6Q16: Solve for y: $3y - 2 = 4$ A) 2 B) 0 C) 5 D) 3Q17: Solve for y: $5y - 3 = 12$ A) 8 B) 3 C) 5 D) 4Q18: Solve for y: $2y - 4 = 4$ A) 6 B) 5 C) 4 D) 2

Q19: Solve for y: $4y - 4 = 12$ A) 5 B) 8 C) 4 D) 0

Q20: Solve for y: $2y - 6 = 6$ A) 8 B) 2 C) 6 D) 7

Q21: Solve for y: $5y - 6 = 24$ A) 7 B) 5 C) 11 D) 6

Q22: Solve for y: $5y - 6 = 24$ A) 11 B) 6 C) 7 D) 5

Q23: Solve for y: $4y - 3 = 9$ A) 7 B) 0 C) 4 D) 3

Q24: Solve for y: $2y - 3 = 3$ A) 2 B) 4 C) 3 D) 5

Q25: Solve for y: $3y - 2 = 4$ A) 2 B) 3 C) 5 D) 0

Q26: Solve for y: $2y - 5 = 5$ A) 2 B) 7 C) 5 D) 6

Q27: Solve for y: $3y - 5 = 10$ A) 8 B) 6 C) 5 D) 3

Q28: Solve for y: $3y - 4 = 8$ A) 7 B) 5 C) 4 D) 3

Q29: Solve for y: $3y - 2 = 4$ A) 5 B) 0 C) 3 D) 2

Q30: Solve for y: $2y - 5 = 5$ A) 2 B) 5 C) 6 D) 7

Q31: Solve for y: $4y - 3 = 9$ A) 4 B) 3 C) 0 D) 7

Q32: Solve for y: $3y - 6 = 12$ A) 3 B) 9 C) 6 D) 7

Q33: Solve for y: $5y - 3 = 12$ A) 3 B) 5 C) 4 D) 8

Q34: Solve for y: $2y - 5 = 5$ A) 2 B) 7 C) 5 D) 6

Q35: Solve for y: $5y - 6 = 24$ A) 11 B) 6 C) 5 D) 7

Q36: Solve for y: $2y - 5 = 5$ A) 2 B) 6 C) 7 D) 5

Q37: Solve for y: $2y - 5 = 5$ A) 2 B) 5 C) 6 D) 7

Q38: Solve for y: $5y - 5 = 20$ A) 0 B) 10 C) 5 D) 6

Q39: Solve for y: $5y - 3 = 12$ A) 3 B) 5 C) 8 D) 4

Q40: Solve for y: $3y - 2 = 4$ A) 0 B) 5 C) 3 D) 2

Q41: If 3 times a number is increased by 5 to get 56, the number is? A) 51 B) 16 C) 18 D) 17

Q42: If 3 times a number is increased by 5 to get 53, the number is? A) 16 B) 15 C) 48 D) 17

Q43: If 2 times a number is increased by 5 to get 45, the number is? A) 40 B) 19 C) 21 D) 20

Q44: If 2 times a number is increased by 5 to get 33, the number is? A) 13 B) 14 C) 15 D) 28

Q45: If 2 times a number is increased by 5 to get 43, the number is? A) 20 B) 19 C) 38 D) 18

Q46: If 4 times a number is increased by 5 to get 45, the number is? A) 40 B) 9 C) 11 D) 10

Q47: If 5 times a number is increased by 5 to get 100, the number is? A) 95 B) 18 C) 20 D) 19

Q48: If 3 times a number is increased by 5 to get 65, the number is? A) 21 B) 60 C) 19 D) 20

Q49: If 3 times a number is increased by 5 to get 50, the number is? A) 45 B) 15 C) 14 D) 16

Q50: If 5 times a number is increased by 5 to get 100, the number is? A) 95 B) 19 C) 18 D) 20

Topic 10: Distance, Speed and Time

Explanation: Formulas relating physical movement: Speed is Distance divided by Time.

Solved Examples:

1. Speed = Distance / Time.
2. Distance = Speed * Time.
3. 60 km in 2 hours = 30 km/h.
4. Time = Distance / Speed.

Level 1 (Standard)

- Q1: Distance if speed is 40 km/h and time is 4 h? A) 160 B) 44 C) 150 D) 170
- Q2: Distance if speed is 37 km/h and time is 2 h? A) 64 B) 84 C) 39 D) 74
- Q3: Distance if speed is 48 km/h and time is 5 h? A) 230 B) 250 C) 53 D) 240
- Q4: Distance if speed is 48 km/h and time is 4 h? A) 202 B) 52 C) 182 D) 192
- Q5: Distance if speed is 25 km/h and time is 2 h? A) 60 B) 27 C) 50 D) 40
- Q6: Distance if speed is 24 km/h and time is 2 h? A) 58 B) 48 C) 38 D) 26
- Q7: Distance if speed is 29 km/h and time is 5 h? A) 135 B) 155 C) 145 D) 34
- Q8: Distance if speed is 38 km/h and time is 5 h? A) 190 B) 200 C) 180 D) 43
- Q9: Distance if speed is 46 km/h and time is 5 h? A) 240 B) 220 C) 51 D) 230
- Q10: Distance if speed is 24 km/h and time is 2 h? A) 48 B) 38 C) 58 D) 26
- Q11: Distance if speed is 46 km/h and time is 4 h? A) 184 B) 174 C) 50 D) 194
- Q12: Distance if speed is 49 km/h and time is 4 h? A) 206 B) 196 C) 186 D) 53
- Q13: Distance if speed is 36 km/h and time is 3 h? A) 108 B) 118 C) 39 D) 98
- Q14: Distance if speed is 23 km/h and time is 3 h? A) 69 B) 59 C) 26 D) 79
- Q15: Distance if speed is 30 km/h and time is 3 h? A) 33 B) 80 C) 90 D) 100
- Q16: Distance if speed is 29 km/h and time is 3 h? A) 77 B) 97 C) 87 D) 32
- Q17: Distance if speed is 40 km/h and time is 3 h? A) 120 B) 130 C) 43 D) 110
- Q18: Distance if speed is 31 km/h and time is 3 h? A) 83 B) 34 C) 103 D) 93
- Q19: Distance if speed is 42 km/h and time is 3 h? A) 116 B) 126 C) 45 D) 136
- Q20: Distance if speed is 54 km/h and time is 4 h? A) 226 B) 58 C) 206 D) 216
- Q21: Distance if speed is 51 km/h and time is 3 h? A) 163 B) 153 C) 54 D) 143
- Q22: Distance if speed is 20 km/h and time is 4 h? A) 80 B) 70 C) 24 D) 90
- Q23: Distance if speed is 56 km/h and time is 3 h? A) 178 B) 168 C) 59 D) 158
- Q24: Distance if speed is 50 km/h and time is 2 h? A) 90 B) 100 C) 110 D) 52

- Q25: Distance if speed is 39 km/h and time is 2 h? A) 41 B) 78 C) 88 D) 68
- Q26: Distance if speed is 48 km/h and time is 4 h? A) 202 B) 182 C) 52 D) 192
- Q27: Distance if speed is 58 km/h and time is 3 h? A) 184 B) 174 C) 164 D) 61
- Q28: Distance if speed is 21 km/h and time is 2 h? A) 23 B) 42 C) 52 D) 32
- Q29: Distance if speed is 52 km/h and time is 5 h? A) 260 B) 270 C) 250 D) 57
- Q30: Distance if speed is 58 km/h and time is 2 h? A) 106 B) 116 C) 60 D) 126
- Q31: Distance if speed is 47 km/h and time is 4 h? A) 198 B) 188 C) 51 D) 178
- Q32: Distance if speed is 38 km/h and time is 4 h? A) 152 B) 142 C) 42 D) 162
- Q33: Distance if speed is 55 km/h and time is 2 h? A) 110 B) 100 C) 120 D) 57
- Q34: Distance if speed is 46 km/h and time is 5 h? A) 220 B) 51 C) 230 D) 240
- Q35: Distance if speed is 46 km/h and time is 3 h? A) 49 B) 148 C) 128 D) 138
- Q36: Distance if speed is 39 km/h and time is 5 h? A) 185 B) 44 C) 195 D) 205
- Q37: Distance if speed is 25 km/h and time is 2 h? A) 50 B) 27 C) 60 D) 40
- Q38: Distance if speed is 46 km/h and time is 3 h? A) 49 B) 138 C) 148 D) 128
- Q39: Distance if speed is 32 km/h and time is 3 h? A) 96 B) 106 C) 35 D) 86
- Q40: Distance if speed is 22 km/h and time is 4 h? A) 88 B) 78 C) 26 D) 98
- Q41: Distance if speed is 34 km/h and time is 2 h? A) 78 B) 36 C) 58 D) 68
- Q42: Distance if speed is 39 km/h and time is 5 h? A) 185 B) 44 C) 205 D) 195
- Q43: Distance if speed is 46 km/h and time is 3 h? A) 49 B) 138 C) 148 D) 128
- Q44: Distance if speed is 21 km/h and time is 2 h? A) 32 B) 42 C) 23 D) 52
- Q45: Distance if speed is 58 km/h and time is 4 h? A) 232 B) 62 C) 242 D) 222
- Q46: Distance if speed is 36 km/h and time is 5 h? A) 190 B) 170 C) 41 D) 180
- Q47: Distance if speed is 36 km/h and time is 3 h? A) 118 B) 39 C) 98 D) 108
- Q48: Distance if speed is 49 km/h and time is 3 h? A) 52 B) 137 C) 147 D) 157
- Q49: Distance if speed is 37 km/h and time is 4 h? A) 148 B) 41 C) 158 D) 138
- Q50: Distance if speed is 23 km/h and time is 4 h? A) 27 B) 92 C) 82 D) 102
- Q51: Distance if speed is 52 km/h and time is 3 h? A) 146 B) 166 C) 156 D) 55
- Q52: Distance if speed is 54 km/h and time is 4 h? A) 216 B) 58 C) 206 D) 226
- Q53: Distance if speed is 37 km/h and time is 4 h? A) 138 B) 41 C) 158 D) 148
- Q54: Distance if speed is 29 km/h and time is 2 h? A) 58 B) 48 C) 68 D) 31
- Q55: Distance if speed is 43 km/h and time is 5 h? A) 225 B) 215 C) 48 D) 205
- Q56: Distance if speed is 26 km/h and time is 3 h? A) 68 B) 78 C) 88 D) 29

- Q57: Distance if speed is 32 km/h and time is 2 h? A) 74 B) 64 C) 34 D) 54
- Q58: Distance if speed is 27 km/h and time is 3 h? A) 71 B) 91 C) 30 D) 81
- Q59: Distance if speed is 39 km/h and time is 4 h? A) 156 B) 166 C) 146 D) 43
- Q60: Distance if speed is 31 km/h and time is 4 h? A) 35 B) 114 C) 134 D) 124
- Q61: Distance if speed is 34 km/h and time is 3 h? A) 92 B) 102 C) 112 D) 37
- Q62: Distance if speed is 39 km/h and time is 3 h? A) 107 B) 127 C) 117 D) 42
- Q63: Distance if speed is 47 km/h and time is 2 h? A) 104 B) 49 C) 84 D) 94
- Q64: Distance if speed is 47 km/h and time is 2 h? A) 84 B) 104 C) 94 D) 49
- Q65: Distance if speed is 52 km/h and time is 2 h? A) 114 B) 54 C) 104 D) 94
- Q66: Distance if speed is 22 km/h and time is 2 h? A) 24 B) 44 C) 34 D) 54
- Q67: Distance if speed is 26 km/h and time is 2 h? A) 42 B) 52 C) 62 D) 28
- Q68: Distance if speed is 31 km/h and time is 4 h? A) 35 B) 134 C) 114 D) 124
- Q69: Distance if speed is 37 km/h and time is 4 h? A) 41 B) 138 C) 148 D) 158
- Q70: Distance if speed is 52 km/h and time is 2 h? A) 54 B) 94 C) 114 D) 104
- Q71: Distance if speed is 53 km/h and time is 3 h? A) 169 B) 159 C) 149 D) 56
- Q72: Distance if speed is 54 km/h and time is 2 h? A) 118 B) 56 C) 98 D) 108
- Q73: Distance if speed is 43 km/h and time is 3 h? A) 46 B) 129 C) 139 D) 119
- Q74: Distance if speed is 31 km/h and time is 4 h? A) 134 B) 124 C) 35 D) 114
- Q75: Distance if speed is 52 km/h and time is 3 h? A) 166 B) 55 C) 156 D) 146
- Q76: Distance if speed is 27 km/h and time is 5 h? A) 32 B) 125 C) 145 D) 135
- Q77: Distance if speed is 51 km/h and time is 4 h? A) 55 B) 204 C) 194 D) 214
- Q78: Distance if speed is 25 km/h and time is 4 h? A) 110 B) 29 C) 100 D) 90
- Q79: Distance if speed is 38 km/h and time is 5 h? A) 190 B) 43 C) 180 D) 200
- Q80: Distance if speed is 34 km/h and time is 5 h? A) 160 B) 170 C) 39 D) 180
- Q81: Distance if speed is 24 km/h and time is 5 h? A) 29 B) 110 C) 120 D) 130
- Q82: Distance if speed is 51 km/h and time is 2 h? A) 112 B) 102 C) 53 D) 92
- Q83: Distance if speed is 27 km/h and time is 3 h? A) 91 B) 81 C) 30 D) 71
- Q84: Distance if speed is 30 km/h and time is 2 h? A) 50 B) 32 C) 60 D) 70
- Q85: Distance if speed is 32 km/h and time is 5 h? A) 170 B) 37 C) 150 D) 160
- Q86: Distance if speed is 51 km/h and time is 4 h? A) 204 B) 55 C) 194 D) 214
- Q87: Distance if speed is 42 km/h and time is 5 h? A) 210 B) 220 C) 47 D) 200
- Q88: Distance if speed is 29 km/h and time is 5 h? A) 155 B) 34 C) 135 D) 145

Q89: Distance if speed is 51 km/h and time is 5 h? A) 245 B) 255 C) 265 D) 56

Q90: Distance if speed is 21 km/h and time is 2 h? A) 52 B) 23 C) 32 D) 42

Q91: Distance if speed is 21 km/h and time is 3 h? A) 63 B) 24 C) 73 D) 53

Q92: Distance if speed is 29 km/h and time is 4 h? A) 126 B) 33 C) 106 D) 116

Q93: Distance if speed is 49 km/h and time is 3 h? A) 147 B) 52 C) 137 D) 157

Q94: Distance if speed is 51 km/h and time is 4 h? A) 55 B) 204 C) 194 D) 214

Q95: Distance if speed is 22 km/h and time is 5 h? A) 100 B) 120 C) 27 D) 110

Q96: Distance if speed is 40 km/h and time is 5 h? A) 210 B) 200 C) 45 D) 190

Q97: Distance if speed is 22 km/h and time is 3 h? A) 25 B) 66 C) 56 D) 76

Q98: Distance if speed is 51 km/h and time is 5 h? A) 255 B) 265 C) 245 D) 56

Q99: Distance if speed is 51 km/h and time is 2 h? A) 102 B) 53 C) 112 D) 92

Q100: Distance if speed is 50 km/h and time is 3 h? A) 140 B) 160 C) 53 D) 150

Level 2 (Advanced)

Q1: When we convert 36 km/hr into m/sec, we get: A) 10 m/sec B) 1 m/sec C) 5 m/sec D) 20 m/sec

Q2: Convert 72 km/hr into m/sec: A) 36 m/sec B) 20 m/sec C) 40 m/sec D) 25 m/sec

Q3: Convert 18 km/hr into m/sec: A) 9 m/sec B) 10 m/sec C) 0 D) 5 m/sec

Q4: Convert 72 km/hr into m/sec: A) 36 m/sec B) 40 m/sec C) 25 m/sec D) 20 m/sec

Q5: Convert 90 km/hr into m/sec: A) 45 m/sec B) 30 m/sec C) 50 m/sec D) 25 m/sec

Q6: Convert 72 km/hr into m/sec: A) 25 m/sec B) 20 m/sec C) 40 m/sec D) 36 m/sec

Q7: Convert 54 km/hr into m/sec: A) 20 m/sec B) 27 m/sec C) 15 m/sec D) 30 m/sec

Q8: Convert 18 km/hr into m/sec: A) 9 m/sec B) 0 C) 10 m/sec D) 5 m/sec

Q9: Convert 72 km/hr into m/sec: A) 25 m/sec B) 36 m/sec C) 20 m/sec D) 40 m/sec

Q10: Convert 18 km/hr into m/sec: A) 5 m/sec B) 10 m/sec C) 9 m/sec D) 0

Q11: Convert 90 km/hr into m/sec: A) 45 m/sec B) 50 m/sec C) 25 m/sec D) 30 m/sec

Q12: Convert 18 km/hr into m/sec: A) 5 m/sec B) 0 C) 10 m/sec D) 9 m/sec

Q13: Convert 72 km/hr into m/sec: A) 25 m/sec B) 36 m/sec C) 40 m/sec D) 20 m/sec

Q14: Convert 54 km/hr into m/sec: A) 15 m/sec B) 27 m/sec C) 30 m/sec D) 20 m/sec

Q15: Convert 54 km/hr into m/sec: A) 15 m/sec B) 27 m/sec C) 30 m/sec D) 20 m/sec

Q16: Convert 54 km/hr into m/sec: A) 30 m/sec B) 15 m/sec C) 20 m/sec D) 27 m/sec

Q17: Convert 54 km/hr into m/sec: A) 27 m/sec B) 15 m/sec C) 30 m/sec D) 20 m/sec

Q18: Convert 72 km/hr into m/sec: A) 40 m/sec B) 25 m/sec C) 20 m/sec D) 36 m/sec

- Q19: Convert 18 km/hr into m/sec:** A) 0 B) 5 m/sec C) 10 m/sec D) 9 m/sec
- Q20: Convert 90 km/hr into m/sec:** A) 30 m/sec B) 50 m/sec C) 25 m/sec D) 45 m/sec
- Q21: Convert 18 km/hr into m/sec:** A) 5 m/sec B) 10 m/sec C) 0 D) 9 m/sec
- Q22: Convert 90 km/hr into m/sec:** A) 45 m/sec B) 50 m/sec C) 25 m/sec D) 30 m/sec
- Q23: Convert 90 km/hr into m/sec:** A) 25 m/sec B) 50 m/sec C) 45 m/sec D) 30 m/sec
- Q24: Convert 54 km/hr into m/sec:** A) 30 m/sec B) 27 m/sec C) 20 m/sec D) 15 m/sec
- Q25: Convert 90 km/hr into m/sec:** A) 25 m/sec B) 45 m/sec C) 30 m/sec D) 50 m/sec
- Q26: Convert 72 km/hr into m/sec:** A) 40 m/sec B) 20 m/sec C) 25 m/sec D) 36 m/sec
- Q27: Convert 54 km/hr into m/sec:** A) 27 m/sec B) 15 m/sec C) 30 m/sec D) 20 m/sec
- Q28: Convert 54 km/hr into m/sec:** A) 15 m/sec B) 27 m/sec C) 20 m/sec D) 30 m/sec
- Q29: Convert 90 km/hr into m/sec:** A) 30 m/sec B) 25 m/sec C) 50 m/sec D) 45 m/sec
- Q30: Convert 54 km/hr into m/sec:** A) 15 m/sec B) 20 m/sec C) 30 m/sec D) 27 m/sec
- Q31: Convert 54 km/hr into m/sec:** A) 30 m/sec B) 15 m/sec C) 27 m/sec D) 20 m/sec
- Q32: Convert 90 km/hr into m/sec:** A) 45 m/sec B) 30 m/sec C) 25 m/sec D) 50 m/sec
- Q33: Convert 54 km/hr into m/sec:** A) 20 m/sec B) 30 m/sec C) 27 m/sec D) 15 m/sec
- Q34: Convert 90 km/hr into m/sec:** A) 25 m/sec B) 50 m/sec C) 30 m/sec D) 45 m/sec
- Q35: Convert 90 km/hr into m/sec:** A) 50 m/sec B) 30 m/sec C) 45 m/sec D) 25 m/sec
- Q36: Convert 72 km/hr into m/sec:** A) 25 m/sec B) 36 m/sec C) 20 m/sec D) 40 m/sec
- Q37: Convert 72 km/hr into m/sec:** A) 36 m/sec B) 20 m/sec C) 25 m/sec D) 40 m/sec
- Q38: Convert 90 km/hr into m/sec:** A) 50 m/sec B) 30 m/sec C) 45 m/sec D) 25 m/sec
- Q39: Convert 72 km/hr into m/sec:** A) 36 m/sec B) 40 m/sec C) 20 m/sec D) 25 m/sec
- Q40: Convert 72 km/hr into m/sec:** A) 25 m/sec B) 36 m/sec C) 40 m/sec D) 20 m/sec
- Q41: Average speed of a trip going at 20 km/h and returning at 30 km/h is:** A) 22 km/h B) 26 km/h
C) 24 km/h D) 25 km/h
- Q42: Average speed of a trip going at 20 km/h and returning at 30 km/h is:** A) 22 km/h B) 24 km/h
C) 25 km/h D) 26 km/h
- Q43: Average speed of a trip going at 20 km/h and returning at 30 km/h is:** A) 22 km/h B) 24 km/h
C) 26 km/h D) 25 km/h
- Q44: Average speed of a trip going at 20 km/h and returning at 30 km/h is:** A) 24 km/h B) 22 km/h
C) 25 km/h D) 26 km/h
- Q45: Average speed of a trip going at 20 km/h and returning at 30 km/h is:** A) 26 km/h B) 24 km/h
C) 22 km/h D) 25 km/h
- Q46: Average speed of a trip going at 20 km/h and returning at 30 km/h is:** A) 22 km/h B) 26 km/h
C) 24 km/h D) 25 km/h

Q47: Average speed of a trip going at 20 km/h and returning at 30 km/h is: **A) 24 km/h B) 26 km/h**
C) 22 km/h D) 25 km/h

Q48: Average speed of a trip going at 20 km/h and returning at 30 km/h is: **A) 26 km/h B) 24 km/h**
C) 25 km/h D) 22 km/h

Q49: Average speed of a trip going at 20 km/h and returning at 30 km/h is: **A) 24 km/h B) 25 km/h**
C) 26 km/h D) 22 km/h

Q50: Average speed of a trip going at 20 km/h and returning at 30 km/h is: **A) 22 km/h B) 26 km/h**
C) 25 km/h D) 24 km/h

Topic 11: Perimeter and Area

Explanation: Perimeter is the total length of the boundary of a closed figure. Area is the space enclosed within it.

Solved Examples:

1. Area of rectangle = Length * Width.
2. Perimeter of rectangle = $2(L+W)$.
3. Area of square = side^2 .
4. Area of triangle = $\frac{1}{2} * \text{base} * \text{height}$.

Level 1 (Standard)

- Q1: Area of a rectangle with Length 12 and Width 5? A) 17 B) 34 C) 60 D) 62
- Q2: Area of a rectangle with Length 12 and Width 7? A) 38 B) 19 C) 84 D) 86
- Q3: Area of a rectangle with Length 15 and Width 2? A) 30 B) 32 C) 17 D) 34
- Q4: Area of a rectangle with Length 9 and Width 7? A) 32 B) 16 C) 65 D) 63
- Q5: Area of a rectangle with Length 12 and Width 8? A) 20 B) 98 C) 40 D) 96
- Q6: Area of a rectangle with Length 9 and Width 3? A) 29 B) 27 C) 12 D) 24
- Q7: Area of a rectangle with Length 7 and Width 9? A) 63 B) 32 C) 16 D) 65
- Q8: Area of a rectangle with Length 5 and Width 6? A) 11 B) 32 C) 22 D) 30
- Q9: Area of a rectangle with Length 11 and Width 7? A) 36 B) 79 C) 77 D) 18
- Q10: Area of a rectangle with Length 9 and Width 10? A) 19 B) 92 C) 38 D) 90
- Q11: Area of a rectangle with Length 14 and Width 10? A) 24 B) 140 C) 48 D) 142
- Q12: Area of a rectangle with Length 5 and Width 4? A) 18 B) 20 C) 22 D) 9
- Q13: Area of a rectangle with Length 5 and Width 8? A) 40 B) 13 C) 42 D) 26
- Q14: Area of a rectangle with Length 10 and Width 3? A) 26 B) 32 C) 13 D) 30
- Q15: Area of a rectangle with Length 13 and Width 4? A) 52 B) 54 C) 34 D) 17
- Q16: Area of a rectangle with Length 12 and Width 4? A) 16 B) 32 C) 48 D) 50
- Q17: Area of a rectangle with Length 9 and Width 5? A) 14 B) 47 C) 28 D) 45
- Q18: Area of a rectangle with Length 7 and Width 8? A) 30 B) 56 C) 58 D) 15
- Q19: Area of a rectangle with Length 5 and Width 2? A) 12 B) 7 C) 10 D) 14
- Q20: Area of a rectangle with Length 8 and Width 6? A) 50 B) 14 C) 48 D) 28
- Q21: Area of a rectangle with Length 14 and Width 8? A) 44 B) 22 C) 112 D) 114
- Q22: Area of a rectangle with Length 10 and Width 4? A) 42 B) 28 C) 14 D) 40
- Q23: Area of a rectangle with Length 12 and Width 9? A) 42 B) 110 C) 21 D) 108
- Q24: Area of a rectangle with Length 8 and Width 6? A) 48 B) 28 C) 14 D) 50

- Q25: Area of a rectangle with Length 11 and Width 4? A) 30 B) 46 C) 44 D) 15
- Q26: Area of a rectangle with Length 9 and Width 5? A) 47 B) 28 C) 45 D) 14
- Q27: Area of a rectangle with Length 7 and Width 2? A) 9 B) 14 C) 18 D) 16
- Q28: Area of a rectangle with Length 14 and Width 9? A) 126 B) 128 C) 23 D) 46
- Q29: Area of a rectangle with Length 6 and Width 2? A) 14 B) 16 C) 12 D) 8
- Q30: Area of a rectangle with Length 11 and Width 5? A) 55 B) 32 C) 57 D) 16
- Q31: Area of a rectangle with Length 14 and Width 6? A) 40 B) 86 C) 20 D) 84
- Q32: Area of a rectangle with Length 5 and Width 7? A) 35 B) 37 C) 12 D) 24
- Q33: Area of a rectangle with Length 14 and Width 2? A) 16 B) 30 C) 32 D) 28
- Q34: Area of a rectangle with Length 9 and Width 8? A) 34 B) 17 C) 72 D) 74
- Q35: Area of a rectangle with Length 14 and Width 4? A) 18 B) 36 C) 56 D) 58
- Q36: Area of a rectangle with Length 10 and Width 9? A) 92 B) 19 C) 90 D) 38
- Q37: Area of a rectangle with Length 13 and Width 8? A) 106 B) 104 C) 21 D) 42
- Q38: Area of a rectangle with Length 10 and Width 2? A) 20 B) 22 C) 12 D) 24
- Q39: Area of a rectangle with Length 10 and Width 8? A) 80 B) 18 C) 36 D) 82
- Q40: Area of a rectangle with Length 13 and Width 7? A) 93 B) 40 C) 91 D) 20
- Q41: Area of a rectangle with Length 12 and Width 4? A) 32 B) 50 C) 48 D) 16
- Q42: Area of a rectangle with Length 7 and Width 2? A) 9 B) 16 C) 14 D) 18
- Q43: Area of a rectangle with Length 12 and Width 6? A) 72 B) 18 C) 74 D) 36
- Q44: Area of a rectangle with Length 11 and Width 3? A) 35 B) 28 C) 33 D) 14
- Q45: Area of a rectangle with Length 10 and Width 10? A) 100 B) 102 C) 40 D) 20
- Q46: Area of a rectangle with Length 6 and Width 4? A) 26 B) 10 C) 20 D) 24
- Q47: Area of a rectangle with Length 8 and Width 6? A) 50 B) 14 C) 48 D) 28
- Q48: Area of a rectangle with Length 14 and Width 5? A) 38 B) 19 C) 72 D) 70
- Q49: Area of a rectangle with Length 11 and Width 3? A) 35 B) 33 C) 14 D) 28
- Q50: Area of a rectangle with Length 10 and Width 2? A) 24 B) 20 C) 12 D) 22
- Q51: Area of a rectangle with Length 11 and Width 7? A) 79 B) 18 C) 36 D) 77
- Q52: Area of a rectangle with Length 5 and Width 3? A) 15 B) 16 C) 17 D) 8
- Q53: Area of a rectangle with Length 12 and Width 6? A) 74 B) 18 C) 36 D) 72
- Q54: Area of a rectangle with Length 15 and Width 9? A) 48 B) 135 C) 24 D) 137
- Q55: Area of a rectangle with Length 8 and Width 2? A) 10 B) 16 C) 20 D) 18
- Q56: Area of a rectangle with Length 6 and Width 10? A) 62 B) 32 C) 60 D) 16

- Q57: Area of a rectangle with Length 9 and Width 4? A) 38 B) 36 C) 13 D) 26
- Q58: Area of a rectangle with Length 5 and Width 5? A) 25 B) 27 C) 10 D) 20
- Q59: Area of a rectangle with Length 9 and Width 4? A) 13 B) 38 C) 26 D) 36
- Q60: Area of a rectangle with Length 11 and Width 6? A) 68 B) 66 C) 17 D) 34
- Q61: Area of a rectangle with Length 10 and Width 10? A) 100 B) 102 C) 20 D) 40
- Q62: Area of a rectangle with Length 11 and Width 9? A) 99 B) 40 C) 20 D) 101
- Q63: Area of a rectangle with Length 6 and Width 8? A) 28 B) 48 C) 14 D) 50
- Q64: Area of a rectangle with Length 11 and Width 8? A) 90 B) 38 C) 19 D) 88
- Q65: Area of a rectangle with Length 12 and Width 5? A) 62 B) 60 C) 17 D) 34
- Q66: Area of a rectangle with Length 9 and Width 9? A) 83 B) 36 C) 81 D) 18
- Q67: Area of a rectangle with Length 9 and Width 4? A) 36 B) 13 C) 38 D) 26
- Q68: Area of a rectangle with Length 8 and Width 10? A) 82 B) 80 C) 36 D) 18
- Q69: Area of a rectangle with Length 13 and Width 3? A) 32 B) 16 C) 41 D) 39
- Q70: Area of a rectangle with Length 13 and Width 8? A) 106 B) 42 C) 104 D) 21
- Q71: Area of a rectangle with Length 15 and Width 6? A) 21 B) 90 C) 42 D) 92
- Q72: Area of a rectangle with Length 13 and Width 2? A) 15 B) 30 C) 28 D) 26
- Q73: Area of a rectangle with Length 7 and Width 4? A) 22 B) 30 C) 28 D) 11
- Q74: Area of a rectangle with Length 11 and Width 6? A) 66 B) 34 C) 17 D) 68
- Q75: Area of a rectangle with Length 15 and Width 9? A) 24 B) 135 C) 48 D) 137
- Q76: Area of a rectangle with Length 8 and Width 4? A) 12 B) 24 C) 34 D) 32
- Q77: Area of a rectangle with Length 15 and Width 3? A) 36 B) 45 C) 47 D) 18
- Q78: Area of a rectangle with Length 5 and Width 8? A) 26 B) 42 C) 13 D) 40
- Q79: Area of a rectangle with Length 15 and Width 9? A) 135 B) 48 C) 137 D) 24
- Q80: Area of a rectangle with Length 15 and Width 9? A) 135 B) 48 C) 24 D) 137
- Q81: Area of a rectangle with Length 15 and Width 8? A) 46 B) 23 C) 120 D) 122
- Q82: Area of a rectangle with Length 7 and Width 2? A) 9 B) 16 C) 14 D) 18
- Q83: Area of a rectangle with Length 8 and Width 2? A) 18 B) 16 C) 10 D) 20
- Q84: Area of a rectangle with Length 15 and Width 5? A) 40 B) 75 C) 77 D) 20
- Q85: Area of a rectangle with Length 6 and Width 6? A) 38 B) 24 C) 36 D) 12
- Q86: Area of a rectangle with Length 11 and Width 2? A) 26 B) 24 C) 13 D) 22
- Q87: Area of a rectangle with Length 12 and Width 9? A) 110 B) 42 C) 108 D) 21
- Q88: Area of a rectangle with Length 14 and Width 5? A) 70 B) 72 C) 19 D) 38

- Q89: Area of a rectangle with Length 5 and Width 7? A) 37 B) 24 C) 12 D) 35
- Q90: Area of a rectangle with Length 11 and Width 9? A) 20 B) 40 C) 99 D) 101
- Q91: Area of a rectangle with Length 11 and Width 9? A) 40 B) 101 C) 99 D) 20
- Q92: Area of a rectangle with Length 13 and Width 2? A) 26 B) 30 C) 28 D) 15
- Q93: Area of a rectangle with Length 13 and Width 3? A) 39 B) 32 C) 16 D) 41
- Q94: Area of a rectangle with Length 12 and Width 3? A) 36 B) 30 C) 38 D) 15
- Q95: Area of a rectangle with Length 12 and Width 8? A) 98 B) 40 C) 20 D) 96
- Q96: Area of a rectangle with Length 8 and Width 9? A) 17 B) 72 C) 34 D) 74
- Q97: Area of a rectangle with Length 13 and Width 5? A) 65 B) 36 C) 18 D) 67
- Q98: Area of a rectangle with Length 7 and Width 6? A) 42 B) 44 C) 26 D) 13
- Q99: Area of a rectangle with Length 12 and Width 4? A) 50 B) 48 C) 16 D) 32
- Q100: Area of a rectangle with Length 15 and Width 9? A) 24 B) 137 C) 135 D) 48

Level 2 (Advanced)

- Q1: If the perimeter of a square shaped garden is 40m then its area is: A) 100m² B) 1600m² C) 160m² D) 400m²
- Q2: If perimeter of a square is 20m, its area is: A) 25m² B) 80m² C) 40m² D) 10m²
- Q3: If perimeter of a square is 24m, its area is: A) 12m² B) 36m² C) 96m² D) 48m²
- Q4: If perimeter of a square is 20m, its area is: A) 25m² B) 10m² C) 40m² D) 80m²
- Q5: If perimeter of a square is 48m, its area is: A) 24m² B) 192m² C) 144m² D) 96m²
- Q6: If perimeter of a square is 20m, its area is: A) 10m² B) 25m² C) 40m² D) 80m²
- Q7: If perimeter of a square is 44m, its area is: A) 22m² B) 176m² C) 121m² D) 88m²
- Q8: If perimeter of a square is 36m, its area is: A) 81m² B) 18m² C) 72m² D) 144m²
- Q9: If perimeter of a square is 20m, its area is: A) 40m² B) 10m² C) 25m² D) 80m²
- Q10: If perimeter of a square is 48m, its area is: A) 24m² B) 192m² C) 96m² D) 144m²
- Q11: If perimeter of a square is 20m, its area is: A) 40m² B) 10m² C) 80m² D) 25m²
- Q12: If perimeter of a square is 44m, its area is: A) 88m² B) 22m² C) 176m² D) 121m²
- Q13: If perimeter of a square is 24m, its area is: A) 96m² B) 48m² C) 12m² D) 36m²
- Q14: If perimeter of a square is 24m, its area is: A) 36m² B) 48m² C) 12m² D) 96m²
- Q15: If perimeter of a square is 44m, its area is: A) 88m² B) 121m² C) 176m² D) 22m²
- Q16: If perimeter of a square is 24m, its area is: A) 12m² B) 36m² C) 48m² D) 96m²
- Q17: If perimeter of a square is 20m, its area is: A) 25m² B) 80m² C) 10m² D) 40m²
- Q18: If perimeter of a square is 20m, its area is: A) 25m² B) 80m² C) 10m² D) 40m²

- Q19: If perimeter of a square is 32m, its area is: A) 16m^2 B) 0 C) 64m^2 D) 128m^2
- Q20: If perimeter of a square is 32m, its area is: A) 16m^2 B) 64m^2 C) 128m^2 D) 0
- Q21: If perimeter of a square is 24m, its area is: A) 48m^2 B) 96m^2 C) 36m^2 D) 12m^2
- Q22: If perimeter of a square is 36m, its area is: A) 81m^2 B) 144m^2 C) 72m^2 D) 18m^2
- Q23: If perimeter of a square is 44m, its area is: A) 22m^2 B) 88m^2 C) 121m^2 D) 176m^2
- Q24: If perimeter of a square is 24m, its area is: A) 48m^2 B) 12m^2 C) 96m^2 D) 36m^2
- Q25: If perimeter of a square is 20m, its area is: A) 25m^2 B) 10m^2 C) 40m^2 D) 80m^2
- Q26: If perimeter of a square is 24m, its area is: A) 96m^2 B) 48m^2 C) 36m^2 D) 12m^2
- Q27: If perimeter of a square is 20m, its area is: A) 10m^2 B) 25m^2 C) 80m^2 D) 40m^2
- Q28: If perimeter of a square is 48m, its area is: A) 144m^2 B) 24m^2 C) 96m^2 D) 192m^2
- Q29: If perimeter of a square is 48m, its area is: A) 144m^2 B) 96m^2 C) 24m^2 D) 192m^2
- Q30: If perimeter of a square is 32m, its area is: A) 16m^2 B) 0 C) 128m^2 D) 64m^2
- Q31: If perimeter of a square is 48m, its area is: A) 192m^2 B) 144m^2 C) 96m^2 D) 24m^2
- Q32: If perimeter of a square is 44m, its area is: A) 121m^2 B) 88m^2 C) 176m^2 D) 22m^2
- Q33: If perimeter of a square is 48m, its area is: A) 192m^2 B) 96m^2 C) 144m^2 D) 24m^2
- Q34: If perimeter of a square is 20m, its area is: A) 10m^2 B) 40m^2 C) 80m^2 D) 25m^2
- Q35: If perimeter of a square is 36m, its area is: A) 81m^2 B) 18m^2 C) 144m^2 D) 72m^2
- Q36: If perimeter of a square is 24m, its area is: A) 12m^2 B) 48m^2 C) 96m^2 D) 36m^2
- Q37: If perimeter of a square is 44m, its area is: A) 88m^2 B) 121m^2 C) 22m^2 D) 176m^2
- Q38: If perimeter of a square is 20m, its area is: A) 10m^2 B) 40m^2 C) 80m^2 D) 25m^2
- Q39: If perimeter of a square is 24m, its area is: A) 36m^2 B) 48m^2 C) 12m^2 D) 96m^2
- Q40: If perimeter of a square is 44m, its area is: A) 88m^2 B) 22m^2 C) 176m^2 D) 121m^2
- Q41: If the side of a square is doubled, its area becomes: A) 4 times B) Remains same C) 2 times D) 8 times
- Q42: If the side of a square is doubled, its area becomes: A) 2 times B) 8 times C) Remains same D) 4 times
- Q43: If the side of a square is doubled, its area becomes: A) 8 times B) 4 times C) 2 times D) Remains same
- Q44: If the side of a square is doubled, its area becomes: A) 8 times B) 4 times C) 2 times D) Remains same
- Q45: If the side of a square is doubled, its area becomes: A) 4 times B) 8 times C) Remains same D) 2 times
- Q46: If the side of a square is doubled, its area becomes: A) 2 times B) 4 times C) Remains same D) 8 times

Q47: If the side of a square is doubled, its area becomes: A) 2 times B) 4 times C) 8 times
D) Remains same

Q48: If the side of a square is doubled, its area becomes: A) 8 times B) Remains same C) 2 times
D) 4 times

Q49: If the side of a square is doubled, its area becomes: A) Remains same B) 4 times C) 2 times
D) 8 times

Q50: If the side of a square is doubled, its area becomes: A) 4 times B) Remains same C) 8 times
D) 2 times

Topic 12: Practical Geometry

Explanation: The process of constructing geometric figures using instruments like a compass, ruler, and protractor.

Solved Examples:

1. Bisecting a line divides it into two equal halves.
2. A compass is used to draw arcs.
3. A perpendicular forms a 90° angle.
4. A triangle has 3 sides.

Level 1 (Standard)

- Q1: A triangle with 3 equal sides? A) Isosceles B) Scalene C) Right D) Equilateral
- Q2: A triangle with 3 equal sides? A) Scalene B) Equilateral C) Right D) Isosceles
- Q3: A triangle with 3 equal sides? A) Right B) Scalene C) Isosceles D) Equilateral
- Q4: A triangle with 3 equal sides? A) Equilateral B) Isosceles C) Right D) Scalene
- Q5: A triangle with 3 equal sides? A) Equilateral B) Isosceles C) Scalene D) Right
- Q6: A triangle with 3 equal sides? A) Right B) Scalene C) Equilateral D) Isosceles
- Q7: A triangle with 3 equal sides? A) Isosceles B) Scalene C) Equilateral D) Right
- Q8: Tool used to draw circles? A) Ruler B) Compass C) Protractor D) Set Square
- Q9: Tool used to draw circles? A) Set Square B) Protractor C) Compass D) Ruler
- Q10: Tool used to measure angles? A) Divider B) Ruler C) Compass D) Protractor
- Q11: Tool used to measure angles? A) Ruler B) Divider C) Protractor D) Compass
- Q12: A 90 degree angle is exactly? A) Right angle B) Reflex angle C) Acute angle D) Obtuse angle
- Q13: A triangle with 3 equal sides? A) Isosceles B) Scalene C) Right D) Equilateral
- Q14: A triangle with 3 equal sides? A) Right B) Scalene C) Isosceles D) Equilateral
- Q15: Tool used to draw circles? A) Compass B) Set Square C) Ruler D) Protractor
- Q16: Tool used to measure angles? A) Divider B) Compass C) Ruler D) Protractor
- Q17: Tool used to measure angles? A) Divider B) Ruler C) Compass D) Protractor
- Q18: A 90 degree angle is exactly? A) Right angle B) Obtuse angle C) Acute angle D) Reflex angle
- Q19: A triangle with 3 equal sides? A) Scalene B) Right C) Equilateral D) Isosceles
- Q20: A triangle with 3 equal sides? A) Scalene B) Isosceles C) Equilateral D) Right
- Q21: Tool used to measure angles? A) Ruler B) Protractor C) Compass D) Divider
- Q22: A triangle with 3 equal sides? A) Isosceles B) Equilateral C) Right D) Scalene
- Q23: A triangle with 3 equal sides? A) Isosceles B) Equilateral C) Right D) Scalene
- Q24: Tool used to draw circles? A) Set Square B) Protractor C) Ruler D) Compass

- Q25: Tool used to measure angles? A) Compass B) Ruler C) Divider D) Protractor
- Q26: Tool used to draw circles? A) Protractor B) Compass C) Ruler D) Set Square
- Q27: Tool used to measure angles? A) Ruler B) Divider C) Protractor D) Compass
- Q28: Tool used to draw circles? A) Compass B) Set Square C) Ruler D) Protractor
- Q29: Tool used to measure angles? A) Divider B) Protractor C) Compass D) Ruler
- Q30: A triangle with 3 equal sides? A) Right B) Scalene C) Isosceles D) Equilateral
- Q31: Tool used to draw circles? A) Ruler B) Protractor C) Compass D) Set Square
- Q32: A triangle with 3 equal sides? A) Isosceles B) Right C) Equilateral D) Scalene
- Q33: Tool used to measure angles? A) Ruler B) Protractor C) Divider D) Compass
- Q34: Tool used to draw circles? A) Protractor B) Set Square C) Compass D) Ruler
- Q35: A 90 degree angle is exactly? A) Acute angle B) Right angle C) Obtuse angle D) Reflex angle
- Q36: Tool used to measure angles? A) Compass B) Divider C) Protractor D) Ruler
- Q37: Tool used to measure angles? A) Divider B) Protractor C) Compass D) Ruler
- Q38: A 90 degree angle is exactly? A) Right angle B) Obtuse angle C) Reflex angle D) Acute angle
- Q39: A 90 degree angle is exactly? A) Acute angle B) Obtuse angle C) Right angle D) Reflex angle
- Q40: Tool used to draw circles? A) Set Square B) Compass C) Ruler D) Protractor
- Q41: A triangle with 3 equal sides? A) Scalene B) Isosceles C) Equilateral D) Right
- Q42: Tool used to measure angles? A) Protractor B) Divider C) Compass D) Ruler
- Q43: Tool used to measure angles? A) Ruler B) Compass C) Protractor D) Divider
- Q44: Tool used to draw circles? A) Ruler B) Set Square C) Protractor D) Compass
- Q45: Tool used to draw circles? A) Compass B) Ruler C) Set Square D) Protractor
- Q46: A triangle with 3 equal sides? A) Isosceles B) Right C) Scalene D) Equilateral
- Q47: Tool used to draw circles? A) Protractor B) Compass C) Set Square D) Ruler
- Q48: Tool used to draw circles? A) Compass B) Protractor C) Ruler D) Set Square
- Q49: Tool used to measure angles? A) Divider B) Ruler C) Compass D) Protractor
- Q50: Tool used to draw circles? A) Ruler B) Protractor C) Set Square D) Compass
- Q51: A 90 degree angle is exactly? A) Right angle B) Acute angle C) Reflex angle D) Obtuse angle
- Q52: A 90 degree angle is exactly? A) Right angle B) Reflex angle C) Obtuse angle D) Acute angle
- Q53: Tool used to measure angles? A) Divider B) Protractor C) Ruler D) Compass
- Q54: A 90 degree angle is exactly? A) Obtuse angle B) Reflex angle C) Acute angle D) Right angle
- Q55: Tool used to draw circles? A) Set Square B) Compass C) Protractor D) Ruler
- Q56: A 90 degree angle is exactly? A) Right angle B) Acute angle C) Reflex angle D) Obtuse angle

- Q57: A triangle with 3 equal sides? A) Right B) Isosceles C) Equilateral D) Scalene
- Q58: A 90 degree angle is exactly? A) Right angle B) Obtuse angle C) Reflex angle D) Acute angle
- Q59: Tool used to measure angles? A) Divider B) Protractor C) Ruler D) Compass
- Q60: A triangle with 3 equal sides? A) Isosceles B) Scalene C) Right D) Equilateral
- Q61: A triangle with 3 equal sides? A) Scalene B) Equilateral C) Isosceles D) Right
- Q62: Tool used to measure angles? A) Divider B) Compass C) Ruler D) Protractor
- Q63: Tool used to measure angles? A) Protractor B) Divider C) Compass D) Ruler
- Q64: A triangle with 3 equal sides? A) Right B) Equilateral C) Scalene D) Isosceles
- Q65: Tool used to measure angles? A) Ruler B) Protractor C) Compass D) Divider
- Q66: A triangle with 3 equal sides? A) Isosceles B) Scalene C) Right D) Equilateral
- Q67: A 90 degree angle is exactly? A) Acute angle B) Reflex angle C) Right angle D) Obtuse angle
- Q68: A 90 degree angle is exactly? A) Obtuse angle B) Reflex angle C) Right angle D) Acute angle
- Q69: A 90 degree angle is exactly? A) Reflex angle B) Obtuse angle C) Acute angle D) Right angle
- Q70: Tool used to draw circles? A) Ruler B) Protractor C) Set Square D) Compass
- Q71: Tool used to measure angles? A) Protractor B) Compass C) Divider D) Ruler
- Q72: Tool used to draw circles? A) Set Square B) Compass C) Ruler D) Protractor
- Q73: Tool used to measure angles? A) Divider B) Protractor C) Ruler D) Compass
- Q74: Tool used to draw circles? A) Protractor B) Compass C) Set Square D) Ruler
- Q75: A 90 degree angle is exactly? A) Reflex angle B) Right angle C) Obtuse angle D) Acute angle
- Q76: A 90 degree angle is exactly? A) Obtuse angle B) Acute angle C) Right angle D) Reflex angle
- Q77: Tool used to measure angles? A) Protractor B) Divider C) Compass D) Ruler
- Q78: A 90 degree angle is exactly? A) Reflex angle B) Acute angle C) Obtuse angle D) Right angle
- Q79: A triangle with 3 equal sides? A) Isosceles B) Equilateral C) Right D) Scalene
- Q80: Tool used to draw circles? A) Set Square B) Ruler C) Protractor D) Compass
- Q81: A triangle with 3 equal sides? A) Right B) Isosceles C) Equilateral D) Scalene
- Q82: Tool used to draw circles? A) Protractor B) Set Square C) Compass D) Ruler
- Q83: Tool used to draw circles? A) Protractor B) Ruler C) Compass D) Set Square
- Q84: Tool used to draw circles? A) Compass B) Ruler C) Set Square D) Protractor
- Q85: Tool used to measure angles? A) Ruler B) Compass C) Divider D) Protractor
- Q86: A triangle with 3 equal sides? A) Right B) Isosceles C) Scalene D) Equilateral
- Q87: A 90 degree angle is exactly? A) Obtuse angle B) Reflex angle C) Right angle D) Acute angle
- Q88: Tool used to draw circles? A) Set Square B) Protractor C) Compass D) Ruler

- Q89: Tool used to draw circles? A) Set Square B) Protractor C) Ruler D) Compass
- Q90: Tool used to measure angles? A) Compass B) Protractor C) Ruler D) Divider
- Q91: Tool used to measure angles? A) Ruler B) Compass C) Divider D) Protractor
- Q92: A 90 degree angle is exactly? A) Acute angle B) Obtuse angle C) Reflex angle D) Right angle
- Q93: A triangle with 3 equal sides? A) Right B) Scalene C) Isosceles D) Equilateral
- Q94: Tool used to measure angles? A) Compass B) Divider C) Ruler D) Protractor
- Q95: Tool used to measure angles? A) Protractor B) Divider C) Compass D) Ruler
- Q96: Tool used to measure angles? A) Compass B) Ruler C) Protractor D) Divider
- Q97: A triangle with 3 equal sides? A) Equilateral B) Scalene C) Isosceles D) Right
- Q98: Tool used to measure angles? A) Compass B) Protractor C) Divider D) Ruler
- Q99: A triangle with 3 equal sides? A) Isosceles B) Equilateral C) Right D) Scalene
- Q100: Tool used to measure angles? A) Compass B) Ruler C) Divider D) Protractor

Level 2 (Advanced)

- Q1: A line segment joining two points on a circle is called: A) diameter B) chord C) radius D) arc
- Q2: The longest chord of a circle is known as its: A) Diameter B) Tangent C) Radius D) Secant
- Q3: The longest chord of a circle is known as its: A) Diameter B) Radius C) Secant D) Tangent
- Q4: The longest chord of a circle is known as its: A) Tangent B) Secant C) Diameter D) Radius
- Q5: The longest chord of a circle is known as its: A) Radius B) Secant C) Tangent D) Diameter
- Q6: The longest chord of a circle is known as its: A) Diameter B) Radius C) Tangent D) Secant
- Q7: The longest chord of a circle is known as its: A) Tangent B) Diameter C) Radius D) Secant
- Q8: The longest chord of a circle is known as its: A) Diameter B) Secant C) Tangent D) Radius
- Q9: The longest chord of a circle is known as its: A) Diameter B) Tangent C) Radius D) Secant
- Q10: The longest chord of a circle is known as its: A) Radius B) Tangent C) Secant D) Diameter
- Q11: The longest chord of a circle is known as its: A) Radius B) Secant C) Tangent D) Diameter
- Q12: The longest chord of a circle is known as its: A) Secant B) Diameter C) Radius D) Tangent
- Q13: The longest chord of a circle is known as its: A) Tangent B) Diameter C) Secant D) Radius
- Q14: The longest chord of a circle is known as its: A) Secant B) Tangent C) Radius D) Diameter
- Q15: The longest chord of a circle is known as its: A) Diameter B) Radius C) Secant D) Tangent
- Q16: The longest chord of a circle is known as its: A) Diameter B) Radius C) Tangent D) Secant
- Q17: The longest chord of a circle is known as its: A) Diameter B) Tangent C) Radius D) Secant
- Q18: The longest chord of a circle is known as its: A) Secant B) Tangent C) Diameter D) Radius

- Q19: The longest chord of a circle is known as its: A) Secant B) Tangent C) Radius D) Diameter
- Q20: The longest chord of a circle is known as its: A) Radius B) Tangent C) Secant D) Diameter
- Q21: The longest chord of a circle is known as its: A) Secant B) Diameter C) Tangent D) Radius
- Q22: The longest chord of a circle is known as its: A) Diameter B) Secant C) Tangent D) Radius
- Q23: The longest chord of a circle is known as its: A) Secant B) Radius C) Diameter D) Tangent
- Q24: The longest chord of a circle is known as its: A) Secant B) Tangent C) Diameter D) Radius
- Q25: The longest chord of a circle is known as its: A) Secant B) Radius C) Tangent D) Diameter
- Q26: The longest chord of a circle is known as its: A) Radius B) Tangent C) Secant D) Diameter
- Q27: The longest chord of a circle is known as its: A) Diameter B) Secant C) Tangent D) Radius
- Q28: The longest chord of a circle is known as its: A) Diameter B) Tangent C) Secant D) Radius
- Q29: The longest chord of a circle is known as its: A) Radius B) Secant C) Tangent D) Diameter
- Q30: The longest chord of a circle is known as its: A) Secant B) Diameter C) Tangent D) Radius
- Q31: The longest chord of a circle is known as its: A) Secant B) Diameter C) Tangent D) Radius
- Q32: The longest chord of a circle is known as its: A) Radius B) Diameter C) Tangent D) Secant
- Q33: The longest chord of a circle is known as its: A) Tangent B) Secant C) Diameter D) Radius
- Q34: The longest chord of a circle is known as its: A) Secant B) Diameter C) Tangent D) Radius
- Q35: The longest chord of a circle is known as its: A) Radius B) Tangent C) Secant D) Diameter
- Q36: The longest chord of a circle is known as its: A) Radius B) Diameter C) Secant D) Tangent
- Q37: The longest chord of a circle is known as its: A) Tangent B) Radius C) Diameter D) Secant
- Q38: The longest chord of a circle is known as its: A) Secant B) Radius C) Diameter D) Tangent
- Q39: The longest chord of a circle is known as its: A) Radius B) Diameter C) Tangent D) Secant
- Q40: The longest chord of a circle is known as its: A) Radius B) Diameter C) Secant D) Tangent
- Q41: The angle subtended by a diameter at any point on the circumference is: A) 180° B) 45° C) 60° D) 90°
- Q42: The angle subtended by a diameter at any point on the circumference is: A) 45° B) 60° C) 90° D) 180°
- Q43: The angle subtended by a diameter at any point on the circumference is: A) 90° B) 60° C) 180° D) 45°
- Q44: The angle subtended by a diameter at any point on the circumference is: A) 60° B) 45° C) 90° D) 180°
- Q45: The angle subtended by a diameter at any point on the circumference is: A) 60° B) 180° C) 90° D) 45°
- Q46: The angle subtended by a diameter at any point on the circumference is: A) 45° B) 60° C) 90° D) 180°

Q47: The angle subtended by a diameter at any point on the circumference is: A) 90° B) 60° C) 45° D) 180°

Q48: The angle subtended by a diameter at any point on the circumference is: A) 60° B) 90° C) 45° D) 180°

Q49: The angle subtended by a diameter at any point on the circumference is: A) 180° B) 90° C) 45° D) 60°

Q50: The angle subtended by a diameter at any point on the circumference is: A) 90° B) 60° C) 45° D) 180°

Topic 13: Angle Properties of Polygons

Explanation: Rules governing the interior and exterior angles of multi-sided geometric shapes.

Solved Examples:

1. Triangle angles sum to 180° .
2. Quadrilateral angles sum to 360° .
3. Sum of exterior angles is always 360° .
4. Regular polygons have equal interior angles.

Level 1 (Standard)

- Q1: Sum of interior angles of a polygon with 8 sides? A) 1080 B) 1260 C) 1440 D) 360
- Q2: Sum of interior angles of a polygon with 4 sides? A) 360 B) 720 C) 0 D) 540
- Q3: Sum of interior angles of a polygon with 7 sides? A) 900 B) 1260 C) 360 D) 1080
- Q4: Sum of interior angles of a polygon with 6 sides? A) 720 B) 1080 C) 900 D) 360
- Q5: Sum of interior angles of a polygon with 8 sides? A) 1440 B) 360 C) 1260 D) 1080
- Q6: Sum of interior angles of a polygon with 4 sides? A) 540 B) 720 C) 360 D) 0
- Q7: Sum of interior angles of a polygon with 4 sides? A) 360 B) 0 C) 720 D) 540
- Q8: Sum of interior angles of a polygon with 7 sides? A) 900 B) 360 C) 1080 D) 1260
- Q9: Sum of interior angles of a polygon with 7 sides? A) 1260 B) 360 C) 1080 D) 900
- Q10: Sum of interior angles of a polygon with 5 sides? A) 540 B) 900 C) 360 D) 720
- Q11: Sum of interior angles of a polygon with 4 sides? A) 0 B) 540 C) 720 D) 360
- Q12: Sum of interior angles of a polygon with 6 sides? A) 720 B) 360 C) 1080 D) 900
- Q13: Sum of interior angles of a polygon with 6 sides? A) 720 B) 900 C) 1080 D) 360
- Q14: Sum of interior angles of a polygon with 5 sides? A) 900 B) 360 C) 540 D) 720
- Q15: Sum of interior angles of a polygon with 6 sides? A) 360 B) 720 C) 900 D) 1080
- Q16: Sum of interior angles of a polygon with 5 sides? A) 360 B) 720 C) 900 D) 540
- Q17: Sum of interior angles of a polygon with 5 sides? A) 720 B) 360 C) 540 D) 900
- Q18: Sum of interior angles of a polygon with 3 sides? A) 540 B) 0 C) 180 D) 360
- Q19: Sum of interior angles of a polygon with 5 sides? A) 540 B) 720 C) 360 D) 900
- Q20: Sum of interior angles of a polygon with 5 sides? A) 540 B) 900 C) 720 D) 360
- Q21: Sum of interior angles of a polygon with 4 sides? A) 360 B) 0 C) 540 D) 720
- Q22: Sum of interior angles of a polygon with 3 sides? A) 180 B) 0 C) 540 D) 360
- Q23: Sum of interior angles of a polygon with 6 sides? A) 1080 B) 720 C) 360 D) 900
- Q24: Sum of interior angles of a polygon with 6 sides? A) 360 B) 720 C) 900 D) 1080

- Q25: Sum of interior angles of a polygon with 4 sides? A) 540 B) 360 C) 0 D) 720
- Q26: Sum of interior angles of a polygon with 7 sides? A) 900 B) 1260 C) 360 D) 1080
- Q27: Sum of interior angles of a polygon with 5 sides? A) 360 B) 720 C) 900 D) 540
- Q28: Sum of interior angles of a polygon with 6 sides? A) 360 B) 1080 C) 720 D) 900
- Q29: Sum of interior angles of a polygon with 6 sides? A) 360 B) 900 C) 1080 D) 720
- Q30: Sum of interior angles of a polygon with 7 sides? A) 360 B) 900 C) 1080 D) 1260
- Q31: Sum of interior angles of a polygon with 6 sides? A) 900 B) 720 C) 1080 D) 360
- Q32: Sum of interior angles of a polygon with 6 sides? A) 720 B) 1080 C) 360 D) 900
- Q33: Sum of interior angles of a polygon with 8 sides? A) 1260 B) 1080 C) 1440 D) 360
- Q34: Sum of interior angles of a polygon with 7 sides? A) 1260 B) 360 C) 1080 D) 900
- Q35: Sum of interior angles of a polygon with 5 sides? A) 360 B) 540 C) 900 D) 720
- Q36: Sum of interior angles of a polygon with 6 sides? A) 900 B) 1080 C) 360 D) 720
- Q37: Sum of interior angles of a polygon with 4 sides? A) 540 B) 720 C) 360 D) 0
- Q38: Sum of interior angles of a polygon with 7 sides? A) 900 B) 1260 C) 360 D) 1080
- Q39: Sum of interior angles of a polygon with 3 sides? A) 0 B) 360 C) 180 D) 540
- Q40: Sum of interior angles of a polygon with 3 sides? A) 540 B) 360 C) 180 D) 0
- Q41: Sum of interior angles of a polygon with 4 sides? A) 0 B) 540 C) 720 D) 360
- Q42: Sum of interior angles of a polygon with 4 sides? A) 540 B) 360 C) 0 D) 720
- Q43: Sum of interior angles of a polygon with 6 sides? A) 360 B) 900 C) 1080 D) 720
- Q44: Sum of interior angles of a polygon with 4 sides? A) 360 B) 0 C) 720 D) 540
- Q45: Sum of interior angles of a polygon with 4 sides? A) 540 B) 720 C) 0 D) 360
- Q46: Sum of interior angles of a polygon with 6 sides? A) 360 B) 900 C) 1080 D) 720
- Q47: Sum of interior angles of a polygon with 4 sides? A) 360 B) 540 C) 0 D) 720
- Q48: Sum of interior angles of a polygon with 8 sides? A) 360 B) 1440 C) 1080 D) 1260
- Q49: Sum of interior angles of a polygon with 7 sides? A) 900 B) 1080 C) 360 D) 1260
- Q50: Sum of interior angles of a polygon with 5 sides? A) 720 B) 360 C) 540 D) 900
- Q51: Sum of interior angles of a polygon with 6 sides? A) 360 B) 900 C) 1080 D) 720
- Q52: Sum of interior angles of a polygon with 7 sides? A) 900 B) 1260 C) 1080 D) 360
- Q53: Sum of interior angles of a polygon with 6 sides? A) 1080 B) 720 C) 360 D) 900
- Q54: Sum of interior angles of a polygon with 8 sides? A) 1260 B) 360 C) 1440 D) 1080
- Q55: Sum of interior angles of a polygon with 5 sides? A) 720 B) 540 C) 900 D) 360
- Q56: Sum of interior angles of a polygon with 6 sides? A) 360 B) 900 C) 720 D) 1080

- Q57: Sum of interior angles of a polygon with 6 sides? A) 1080 B) 720 C) 360 D) 900
- Q58: Sum of interior angles of a polygon with 8 sides? A) 360 B) 1260 C) 1440 D) 1080
- Q59: Sum of interior angles of a polygon with 4 sides? A) 360 B) 540 C) 0 D) 720
- Q60: Sum of interior angles of a polygon with 8 sides? A) 1440 B) 1260 C) 360 D) 1080
- Q61: Sum of interior angles of a polygon with 6 sides? A) 1080 B) 720 C) 360 D) 900
- Q62: Sum of interior angles of a polygon with 5 sides? A) 360 B) 900 C) 720 D) 540
- Q63: Sum of interior angles of a polygon with 6 sides? A) 360 B) 1080 C) 720 D) 900
- Q64: Sum of interior angles of a polygon with 4 sides? A) 540 B) 0 C) 720 D) 360
- Q65: Sum of interior angles of a polygon with 3 sides? A) 180 B) 360 C) 540 D) 0
- Q66: Sum of interior angles of a polygon with 8 sides? A) 360 B) 1440 C) 1080 D) 1260
- Q67: Sum of interior angles of a polygon with 3 sides? A) 360 B) 0 C) 540 D) 180
- Q68: Sum of interior angles of a polygon with 8 sides? A) 1080 B) 360 C) 1260 D) 1440
- Q69: Sum of interior angles of a polygon with 6 sides? A) 1080 B) 360 C) 720 D) 900
- Q70: Sum of interior angles of a polygon with 7 sides? A) 900 B) 1080 C) 360 D) 1260
- Q71: Sum of interior angles of a polygon with 4 sides? A) 540 B) 360 C) 720 D) 0
- Q72: Sum of interior angles of a polygon with 4 sides? A) 720 B) 0 C) 540 D) 360
- Q73: Sum of interior angles of a polygon with 4 sides? A) 0 B) 720 C) 360 D) 540
- Q74: Sum of interior angles of a polygon with 4 sides? A) 720 B) 0 C) 540 D) 360
- Q75: Sum of interior angles of a polygon with 8 sides? A) 1260 B) 1440 C) 1080 D) 360
- Q76: Sum of interior angles of a polygon with 5 sides? A) 720 B) 360 C) 540 D) 900
- Q77: Sum of interior angles of a polygon with 8 sides? A) 360 B) 1080 C) 1260 D) 1440
- Q78: Sum of interior angles of a polygon with 8 sides? A) 1260 B) 360 C) 1440 D) 1080
- Q79: Sum of interior angles of a polygon with 6 sides? A) 1080 B) 900 C) 360 D) 720
- Q80: Sum of interior angles of a polygon with 3 sides? A) 540 B) 360 C) 180 D) 0
- Q81: Sum of interior angles of a polygon with 5 sides? A) 720 B) 360 C) 540 D) 900
- Q82: Sum of interior angles of a polygon with 3 sides? A) 540 B) 360 C) 180 D) 0
- Q83: Sum of interior angles of a polygon with 5 sides? A) 720 B) 540 C) 360 D) 900
- Q84: Sum of interior angles of a polygon with 4 sides? A) 720 B) 0 C) 540 D) 360
- Q85: Sum of interior angles of a polygon with 8 sides? A) 360 B) 1260 C) 1080 D) 1440
- Q86: Sum of interior angles of a polygon with 7 sides? A) 1080 B) 360 C) 1260 D) 900
- Q87: Sum of interior angles of a polygon with 7 sides? A) 1080 B) 900 C) 360 D) 1260
- Q88: Sum of interior angles of a polygon with 7 sides? A) 360 B) 900 C) 1260 D) 1080

- Q89: Sum of interior angles of a polygon with 4 sides? A) 540 B) 0 C) 360 D) 720
- Q90: Sum of interior angles of a polygon with 5 sides? A) 360 B) 720 C) 540 D) 900
- Q91: Sum of interior angles of a polygon with 8 sides? A) 1260 B) 1440 C) 1080 D) 360
- Q92: Sum of interior angles of a polygon with 4 sides? A) 720 B) 540 C) 360 D) 0
- Q93: Sum of interior angles of a polygon with 8 sides? A) 1080 B) 1440 C) 1260 D) 360
- Q94: Sum of interior angles of a polygon with 3 sides? A) 360 B) 540 C) 0 D) 180
- Q95: Sum of interior angles of a polygon with 5 sides? A) 900 B) 360 C) 540 D) 720
- Q96: Sum of interior angles of a polygon with 5 sides? A) 720 B) 900 C) 360 D) 540
- Q97: Sum of interior angles of a polygon with 8 sides? A) 1440 B) 1080 C) 360 D) 1260
- Q98: Sum of interior angles of a polygon with 5 sides? A) 540 B) 720 C) 360 D) 900
- Q99: Sum of interior angles of a polygon with 8 sides? A) 360 B) 1440 C) 1080 D) 1260
- Q100: Sum of interior angles of a polygon with 3 sides? A) 360 B) 180 C) 540 D) 0

Level 2 (Advanced)

- Q1: The sum of interior angles of a 8-sided polygon is: A) 1260° B) 360° C) 0 D) 1080°
- Q2: The sum of interior angles of a 8-sided polygon is: A) 360° B) 0 C) 1260° D) 1080°
- Q3: The sum of interior angles of a 8-sided polygon is: A) 1260° B) 360° C) 1080° D) 0
- Q4: The sum of interior angles of a 5-sided polygon is: A) 540° B) 360° C) 0 D) 720°
- Q5: The sum of interior angles of a 6-sided polygon is: A) 360° B) 0 C) 720° D) 900°
- Q6: The sum of interior angles of a 5-sided polygon is: A) 360° B) 720° C) 0 D) 540°
- Q7: The sum of interior angles of a 8-sided polygon is: A) 0 B) 1260° C) 1080° D) 360°
- Q8: The sum of interior angles of a 6-sided polygon is: A) 0 B) 900° C) 360° D) 720°
- Q9: The sum of interior angles of a 8-sided polygon is: A) 1260° B) 0 C) 1080° D) 360°
- Q10: The sum of interior angles of a 8-sided polygon is: A) 0 B) 1080° C) 1260° D) 360°
- Q11: The sum of interior angles of a 5-sided polygon is: A) 720° B) 0 C) 360° D) 540°
- Q12: The sum of interior angles of a 8-sided polygon is: A) 1080° B) 0 C) 360° D) 1260°
- Q13: The sum of interior angles of a 8-sided polygon is: A) 0 B) 1260° C) 1080° D) 360°
- Q14: The sum of interior angles of a 8-sided polygon is: A) 360° B) 1260° C) 0 D) 1080°
- Q15: The sum of interior angles of a 5-sided polygon is: A) 0 B) 360° C) 540° D) 720°
- Q16: The sum of interior angles of a 5-sided polygon is: A) 0 B) 360° C) 540° D) 720°
- Q17: The sum of interior angles of a 8-sided polygon is: A) 0 B) 360° C) 1080° D) 1260°
- Q18: The sum of interior angles of a 6-sided polygon is: A) 360° B) 720° C) 900° D) 0

- Q19: The sum of interior angles of a 8-sided polygon is: A) 360° B) 0 C) 1080° D) 1260°
- Q20: The sum of interior angles of a 5-sided polygon is: A) 540° B) 360° C) 0 D) 720°
- Q21: The sum of interior angles of a 8-sided polygon is: A) 1260° B) 1080° C) 360° D) 0
- Q22: The sum of interior angles of a 6-sided polygon is: A) 360° B) 900° C) 720° D) 0
- Q23: The sum of interior angles of a 6-sided polygon is: A) 360° B) 900° C) 720° D) 0
- Q24: The sum of interior angles of a 6-sided polygon is: A) 720° B) 900° C) 360° D) 0
- Q25: The sum of interior angles of a 5-sided polygon is: A) 360° B) 720° C) 540° D) 0
- Q26: The sum of interior angles of a 6-sided polygon is: A) 360° B) 0 C) 900° D) 720°
- Q27: The sum of interior angles of a 8-sided polygon is: A) 1080° B) 360° C) 0 D) 1260°
- Q28: The sum of interior angles of a 6-sided polygon is: A) 720° B) 0 C) 900° D) 360°
- Q29: The sum of interior angles of a 6-sided polygon is: A) 360° B) 900° C) 720° D) 0
- Q30: The sum of interior angles of a 5-sided polygon is: A) 720° B) 360° C) 540° D) 0
- Q31: The sum of interior angles of a 5-sided polygon is: A) 360° B) 720° C) 0 D) 540°
- Q32: The sum of interior angles of a 6-sided polygon is: A) 720° B) 360° C) 900° D) 0
- Q33: The sum of interior angles of a 8-sided polygon is: A) 1080° B) 0 C) 1260° D) 360°
- Q34: The sum of interior angles of a 6-sided polygon is: A) 360° B) 0 C) 900° D) 720°
- Q35: The sum of interior angles of a 5-sided polygon is: A) 720° B) 540° C) 360° D) 0
- Q36: The sum of interior angles of a 5-sided polygon is: A) 540° B) 360° C) 720° D) 0
- Q37: The sum of interior angles of a 8-sided polygon is: A) 1080° B) 1260° C) 360° D) 0
- Q38: The sum of interior angles of a 8-sided polygon is: A) 0 B) 1260° C) 360° D) 1080°
- Q39: The sum of interior angles of a 6-sided polygon is: A) 360° B) 0 C) 720° D) 900°
- Q40: The sum of interior angles of a 5-sided polygon is: A) 720° B) 540° C) 0 D) 360°
- Q41: Each exterior angle of a regular polygon with 6 sides is: A) 60° B) 70° C) 360° D) 120°
- Q42: Each exterior angle of a regular polygon with 6 sides is: A) 70° B) 360° C) 60° D) 120°
- Q43: Each exterior angle of a regular polygon with 5 sides is: A) 108° B) 82° C) 360° D) 72°
- Q44: Each exterior angle of a regular polygon with 10 sides is: A) 46° B) 360° C) 144° D) 36°
- Q45: Each exterior angle of a regular polygon with 10 sides is: A) 36° B) 144° C) 360° D) 46°
- Q46: Each exterior angle of a regular polygon with 8 sides is: A) 45° B) 55° C) 135° D) 360°
- Q47: Each exterior angle of a regular polygon with 10 sides is: A) 144° B) 46° C) 360° D) 36°
- Q48: Each exterior angle of a regular polygon with 6 sides is: A) 70° B) 60° C) 360° D) 120°
- Q49: Each exterior angle of a regular polygon with 10 sides is: A) 46° B) 360° C) 36° D) 144°
- Q50: Each exterior angle of a regular polygon with 10 sides is: A) 46° B) 144° C) 360° D) 36°

Topic 14: Transformation

Explanation: Operations that alter the position, size, or orientation of a figure on a coordinate plane.

Solved Examples:

1. Translation: sliding the figure.
2. Reflection: flipping the figure over a line.
3. Rotation: turning the figure around a point.
4. Enlargement: changing the size.

Level 1 (Standard)

- Q1: Which transformation changes size? A) Enlargement B) Translation C) Reflection D) Rotation
- Q2: Which transformation changes size? A) Reflection B) Rotation C) Enlargement D) Translation
- Q3: Which transformation is a flip? A) Rotation B) Enlargement C) Reflection D) Translation
- Q4: Which transformation is a flip? A) Rotation B) Enlargement C) Translation D) Reflection
- Q5: Which transformation is a flip? A) Enlargement B) Rotation C) Reflection D) Translation
- Q6: Which transformation is a flip? A) Reflection B) Enlargement C) Translation D) Rotation
- Q7: Which transformation is a slide? A) Rotation B) Enlargement C) Translation D) Reflection
- Q8: Which transformation is a slide? A) Rotation B) Reflection C) Translation D) Enlargement
- Q9: Which transformation is a slide? A) Reflection B) Enlargement C) Translation D) Rotation
- Q10: Which transformation changes size? A) Translation B) Enlargement C) Reflection D) Rotation
- Q11: Which transformation is a slide? A) Rotation B) Enlargement C) Reflection D) Translation
- Q12: Which transformation is a slide? A) Reflection B) Rotation C) Enlargement D) Translation
- Q13: Which transformation changes size? A) Enlargement B) Rotation C) Translation D) Reflection
- Q14: Which transformation is a turn? A) Rotation B) Translation C) Reflection D) Enlargement
- Q15: Which transformation is a turn? A) Enlargement B) Reflection C) Rotation D) Translation
- Q16: Which transformation changes size? A) Translation B) Enlargement C) Reflection D) Rotation
- Q17: Which transformation is a turn? A) Reflection B) Enlargement C) Rotation D) Translation
- Q18: Which transformation changes size? A) Translation B) Enlargement C) Reflection D) Rotation
- Q19: Which transformation is a slide? A) Enlargement B) Reflection C) Rotation D) Translation
- Q20: Which transformation is a flip? A) Reflection B) Enlargement C) Translation D) Rotation
- Q21: Which transformation changes size? A) Reflection B) Rotation C) Enlargement D) Translation
- Q22: Which transformation is a slide? A) Enlargement B) Reflection C) Translation D) Rotation
- Q23: Which transformation changes size? A) Enlargement B) Rotation C) Reflection D) Translation
- Q24: Which transformation changes size? A) Rotation B) Reflection C) Translation D) Enlargement

Q25: Which transformation changes size? A) Rotation B) Translation C) Reflection D) Enlargement

Q26: Which transformation is a turn? A) Enlargement B) Rotation C) Translation D) Reflection

Q27: Which transformation is a slide? A) Rotation B) Translation C) Enlargement D) Reflection

Q28: Which transformation is a turn? A) Translation B) Reflection C) Rotation D) Enlargement

Q29: Which transformation is a slide? A) Reflection B) Translation C) Rotation D) Enlargement

Q30: Which transformation is a flip? A) Enlargement B) Rotation C) Reflection D) Translation

Q31: Which transformation is a slide? A) Reflection B) Translation C) Rotation D) Enlargement

Q32: Which transformation is a flip? A) Reflection B) Enlargement C) Translation D) Rotation

Q33: Which transformation is a flip? A) Reflection B) Translation C) Enlargement D) Rotation

Q34: Which transformation is a slide? A) Translation B) Enlargement C) Rotation D) Reflection

Q35: Which transformation is a slide? A) Reflection B) Enlargement C) Translation D) Rotation

Q36: Which transformation is a turn? A) Rotation B) Reflection C) Translation D) Enlargement

Q37: Which transformation changes size? A) Reflection B) Rotation C) Enlargement D) Translation

Q38: Which transformation is a slide? A) Reflection B) Enlargement C) Translation D) Rotation

Q39: Which transformation is a slide? A) Reflection B) Translation C) Enlargement D) Rotation

Q40: Which transformation is a slide? A) Enlargement B) Reflection C) Translation D) Rotation

Q41: Which transformation changes size? A) Reflection B) Rotation C) Translation D) Enlargement

Q42: Which transformation is a flip? A) Reflection B) Rotation C) Translation D) Enlargement

Q43: Which transformation is a turn? A) Enlargement B) Rotation C) Translation D) Reflection

Q44: Which transformation is a slide? A) Rotation B) Reflection C) Translation D) Enlargement

Q45: Which transformation is a turn? A) Translation B) Rotation C) Enlargement D) Reflection

Q46: Which transformation changes size? A) Reflection B) Translation C) Enlargement D) Rotation

Q47: Which transformation is a flip? A) Enlargement B) Translation C) Rotation D) Reflection

Q48: Which transformation is a turn? A) Enlargement B) Translation C) Reflection D) Rotation

Q49: Which transformation is a flip? A) Reflection B) Rotation C) Translation D) Enlargement

Q50: Which transformation is a slide? A) Reflection B) Enlargement C) Translation D) Rotation

Q51: Which transformation is a flip? A) Rotation B) Translation C) Enlargement D) Reflection

Q52: Which transformation changes size? A) Translation B) Enlargement C) Rotation D) Reflection

Q53: Which transformation is a slide? A) Translation B) Rotation C) Reflection D) Enlargement

Q54: Which transformation changes size? A) Enlargement B) Rotation C) Translation D) Reflection

Q55: Which transformation is a slide? A) Enlargement B) Translation C) Reflection D) Rotation

Q56: Which transformation changes size? A) Reflection B) Translation C) Rotation D) Enlargement

- Q57: Which transformation is a slide? A) Enlargement B) Translation C) Reflection D) Rotation
- Q58: Which transformation is a flip? A) Reflection B) Translation C) Rotation D) Enlargement
- Q59: Which transformation is a turn? A) Enlargement B) Translation C) Rotation D) Reflection
- Q60: Which transformation is a flip? A) Rotation B) Enlargement C) Translation D) Reflection
- Q61: Which transformation is a flip? A) Rotation B) Reflection C) Translation D) Enlargement
- Q62: Which transformation is a slide? A) Enlargement B) Rotation C) Reflection D) Translation
- Q63: Which transformation is a flip? A) Rotation B) Translation C) Enlargement D) Reflection
- Q64: Which transformation changes size? A) Enlargement B) Rotation C) Reflection D) Translation
- Q65: Which transformation is a flip? A) Translation B) Rotation C) Enlargement D) Reflection
- Q66: Which transformation changes size? A) Reflection B) Enlargement C) Translation D) Rotation
- Q67: Which transformation changes size? A) Rotation B) Reflection C) Translation D) Enlargement
- Q68: Which transformation is a turn? A) Translation B) Rotation C) Reflection D) Enlargement
- Q69: Which transformation is a slide? A) Reflection B) Rotation C) Enlargement D) Translation
- Q70: Which transformation changes size? A) Reflection B) Rotation C) Enlargement D) Translation
- Q71: Which transformation is a turn? A) Reflection B) Enlargement C) Translation D) Rotation
- Q72: Which transformation changes size? A) Enlargement B) Translation C) Reflection D) Rotation
- Q73: Which transformation is a turn? A) Translation B) Enlargement C) Rotation D) Reflection
- Q74: Which transformation is a slide? A) Rotation B) Translation C) Enlargement D) Reflection
- Q75: Which transformation changes size? A) Translation B) Reflection C) Enlargement D) Rotation
- Q76: Which transformation is a flip? A) Translation B) Rotation C) Enlargement D) Reflection
- Q77: Which transformation is a slide? A) Rotation B) Translation C) Reflection D) Enlargement
- Q78: Which transformation is a slide? A) Enlargement B) Translation C) Rotation D) Reflection
- Q79: Which transformation is a flip? A) Enlargement B) Translation C) Rotation D) Reflection
- Q80: Which transformation is a slide? A) Rotation B) Reflection C) Enlargement D) Translation
- Q81: Which transformation is a turn? A) Translation B) Rotation C) Enlargement D) Reflection
- Q82: Which transformation is a flip? A) Enlargement B) Translation C) Reflection D) Rotation
- Q83: Which transformation changes size? A) Enlargement B) Rotation C) Reflection D) Translation
- Q84: Which transformation is a turn? A) Reflection B) Rotation C) Enlargement D) Translation
- Q85: Which transformation is a slide? A) Reflection B) Rotation C) Enlargement D) Translation
- Q86: Which transformation is a flip? A) Rotation B) Reflection C) Enlargement D) Translation
- Q87: Which transformation is a flip? A) Reflection B) Enlargement C) Rotation D) Translation
- Q88: Which transformation is a turn? A) Rotation B) Enlargement C) Translation D) Reflection

- Q89: Which transformation is a slide?** A) Translation B) Enlargement C) Reflection D) Rotation
- Q90: Which transformation is a flip?** A) Rotation B) Reflection C) Translation D) Enlargement
- Q91: Which transformation is a turn?** A) Reflection B) Rotation C) Translation D) Enlargement
- Q92: Which transformation is a flip?** A) Enlargement B) Translation C) Rotation D) Reflection
- Q93: Which transformation is a flip?** A) Translation B) Reflection C) Enlargement D) Rotation
- Q94: Which transformation changes size?** A) Enlargement B) Reflection C) Rotation D) Translation
- Q95: Which transformation changes size?** A) Translation B) Rotation C) Reflection D) Enlargement
- Q96: Which transformation is a slide?** A) Reflection B) Enlargement C) Translation D) Rotation
- Q97: Which transformation changes size?** A) Reflection B) Rotation C) Translation D) Enlargement
- Q98: Which transformation is a turn?** A) Enlargement B) Rotation C) Reflection D) Translation
- Q99: Which transformation is a flip?** A) Translation B) Enlargement C) Reflection D) Rotation
- Q100: Which transformation changes size?** A) Reflection B) Enlargement C) Rotation D) Translation

Level 2 (Advanced)

- Q1: A transformation that produces a mirror image of a shape is called:** A) Rotation B) Translation
C) Enlargement D) Reflection
- Q2: A transformation that produces a mirror image of a shape is called:** A) Rotation B) Translation
C) Reflection D) Enlargement
- Q3: A transformation that produces a mirror image of a shape is called:** A) Reflection B) Translation
C) Enlargement D) Rotation
- Q4: A transformation that produces a mirror image of a shape is called:** A) Translation B) Rotation
C) Enlargement D) Reflection
- Q5: A transformation that produces a mirror image of a shape is called:** A) Enlargement B) Reflection
C) Translation D) Rotation
- Q6: A transformation that produces a mirror image of a shape is called:** A) Reflection B) Translation
C) Enlargement D) Rotation
- Q7: A transformation that produces a mirror image of a shape is called:** A) Translation B) Reflection
C) Rotation D) Enlargement
- Q8: A transformation that produces a mirror image of a shape is called:** A) Translation B) Enlargement
C) Reflection D) Rotation
- Q9: A transformation that produces a mirror image of a shape is called:** A) Rotation B) Enlargement
C) Reflection D) Translation
- Q10: A transformation that produces a mirror image of a shape is called:** A) Enlargement B) Translation
C) Reflection D) Rotation
- Q11: A transformation that produces a mirror image of a shape is called:** A) Reflection B) Enlargement
C) Rotation D) Translation
- Q12: A transformation that produces a mirror image of a shape is called:** A) Rotation B) Translation
C) Reflection D) Enlargement
- Q13: A transformation that produces a mirror image of a shape is called:** A) Reflection B) Enlargement
C) Translation D) Rotation

Q14: A transformation that produces a mirror image of a shape is called: A) Enlargement B) Reflection
C) Translation D) Rotation

Q15: A transformation that produces a mirror image of a shape is called: A) Translation B) Reflection
C) Enlargement D) Rotation

Q16: A transformation that produces a mirror image of a shape is called: A) Reflection B) Enlargement
C) Translation D) Rotation

Q17: A transformation that produces a mirror image of a shape is called: A) Translation B) Enlargement
C) Rotation D) Reflection

Q18: A transformation that produces a mirror image of a shape is called: A) Translation B) Enlargement
C) Rotation D) Reflection

Q19: A transformation that produces a mirror image of a shape is called: A) Translation B) Rotation
C) Enlargement D) Reflection

Q20: A transformation that produces a mirror image of a shape is called: A) Enlargement B) Translation
C) Rotation D) Reflection

Q21: A transformation that produces a mirror image of a shape is called: A) Rotation B) Translation
C) Reflection D) Enlargement

Q22: A transformation that produces a mirror image of a shape is called: A) Reflection B) Rotation
C) Enlargement D) Translation

Q23: A transformation that produces a mirror image of a shape is called: A) Rotation B) Enlargement
C) Translation D) Reflection

Q24: A transformation that produces a mirror image of a shape is called: A) Enlargement B) Reflection
C) Rotation D) Translation

Q25: A transformation that produces a mirror image of a shape is called: A) Reflection B) Translation
C) Rotation D) Enlargement

Q26: A transformation that produces a mirror image of a shape is called: A) Enlargement B) Reflection
C) Rotation D) Translation

Q27: A transformation that produces a mirror image of a shape is called: A) Translation B) Rotation
C) Reflection D) Enlargement

Q28: A transformation that produces a mirror image of a shape is called: A) Rotation B) Enlargement
C) Reflection D) Translation

Q29: A transformation that produces a mirror image of a shape is called: A) Reflection B) Enlargement
C) Rotation D) Translation

Q30: A transformation that produces a mirror image of a shape is called: A) Enlargement B) Rotation
C) Translation D) Reflection

Q31: A transformation that produces a mirror image of a shape is called: A) Rotation B) Translation
C) Reflection D) Enlargement

Q32: A transformation that produces a mirror image of a shape is called: A) Rotation B) Enlargement
C) Translation D) Reflection

Q33: A transformation that produces a mirror image of a shape is called: A) Enlargement B) Rotation
C) Translation D) Reflection

Q34: A transformation that produces a mirror image of a shape is called: A) Reflection B) Rotation
C) Translation D) Enlargement

Q35: A transformation that produces a mirror image of a shape is called: A) Rotation B) Enlargement
C) Reflection D) Translation

Q36: A transformation that produces a mirror image of a shape is called: A) Rotation B) Reflection
C) Enlargement D) Translation

Q37: A transformation that produces a mirror image of a shape is called: A) Reflection B) Translation
C) Rotation D) Enlargement

Q38: A transformation that produces a mirror image of a shape is called: A) Rotation B) Enlargement
C) Translation D) Reflection

Q39: A transformation that produces a mirror image of a shape is called: A) Reflection B) Rotation
C) Translation D) Enlargement

Q40: A transformation that produces a mirror image of a shape is called: A) Translation B) Enlargement
C) Reflection D) Rotation

Q41: What is the image of point (3, 2) after reflection across the x-axis? A) (-3, -2) B) (3, -2) C) (-3, 2)
D) (2, 3)

Q42: What is the image of point (1, 4) after reflection across the x-axis? A) (-1, 4) B) (-1, -4) C) (1, -4)
D) (4, 1)

Q43: What is the image of point (5, 5) after reflection across the x-axis? A) (-5, -5) B) (5, -5) C) (5, 5)
D) (-5, 5)

Q44: What is the image of point (4, 1) after reflection across the x-axis? A) (4, -1) B) (1, 4) C) (-4, -1)
D) (-4, 1)

Q45: What is the image of point (2, 4) after reflection across the x-axis? A) (2, -4) B) (-2, -4) C) (-2, 4)
D) (4, 2)

Q46: What is the image of point (3, 4) after reflection across the x-axis? A) (3, -4) B) (4, 3) C) (-3, -4)
D) (-3, 4)

Q47: What is the image of point (1, 4) after reflection across the x-axis? A) (-1, 4) B) (-1, -4) C) (1, -4)
D) (4, 1)

Q48: What is the image of point (3, 4) after reflection across the x-axis? A) (-3, -4) B) (4, 3) C) (-3, 4)
D) (3, -4)

Q49: What is the image of point (1, 2) after reflection across the x-axis? A) (-1, 2) B) (2, 1) C) (1, -2)
D) (-1, -2)

Q50: What is the image of point (4, 4) after reflection across the x-axis? A) (-4, 4) B) (4, 4) C) (4, -4)
D) (-4, -4)

Topic 15: Statistics

Explanation: The mathematical practice of collecting, organizing, analyzing, and presenting data.

Solved Examples:

1. Mean is the average of all values.
2. Median is the exact middle value.
3. Mode is the most frequent value.
4. Range is the highest value minus the lowest.

Level 1 (Standard)

Q1: Mean of 2, 9, 13? A) 9 B) 7.0 C) 9.0 D) 8.0

Q2: Mean of 5, 9, 12? A) 8.7 B) 9 C) 9.7 D) 7.7

Q3: Mean of 2, 6, 11? A) 7.3 B) 5.3 C) 6 D) 6.3

Q4: Mean of 3, 10, 11? A) 7.0 B) 10 C) 8.0 D) 9.0

Q5: Mean of 4, 10, 11? A) 8.3 B) 7.3 C) 9.3 D) 10

Q6: Mean of 3, 9, 11? A) 8.7 B) 6.7 C) 7.7 D) 9

Q7: Mean of 5, 7, 12? A) 7 B) 9.0 C) 8.0 D) 7.0

Q8: Mean of 2, 9, 12? A) 8.7 B) 7.7 C) 6.7 D) 9

Q9: Mean of 5, 10, 12? A) 10 B) 9.0 C) 8.0 D) 10.0

Q10: Mean of 2, 6, 12? A) 5.7 B) 7.7 C) 6.7 D) 6

Q11: Mean of 2, 7, 14? A) 8.7 B) 7 C) 6.7 D) 7.7

Q12: Mean of 1, 6, 14? A) 7.0 B) 8.0 C) 6.0 D) 6

Q13: Mean of 2, 7, 13? A) 6.3 B) 7.3 C) 8.3 D) 7

Q14: Mean of 5, 9, 11? A) 9 B) 9.3 C) 8.3 D) 7.3

Q15: Mean of 3, 8, 13? A) 7.0 B) 9.0 C) 8.0 D) 8

Q16: Mean of 1, 7, 11? A) 5.3 B) 7.3 C) 7 D) 6.3

Q17: Mean of 2, 8, 14? A) 9.0 B) 8.0 C) 8 D) 7.0

Q18: Mean of 4, 7, 13? A) 8.0 B) 7.0 C) 9.0 D) 7

Q19: Mean of 3, 6, 11? A) 7.7 B) 6 C) 5.7 D) 6.7

Q20: Mean of 3, 8, 13? A) 8 B) 9.0 C) 8.0 D) 7.0

Q21: Mean of 2, 10, 14? A) 9.7 B) 7.7 C) 10 D) 8.7

Q22: Mean of 5, 6, 11? A) 6.3 B) 6 C) 7.3 D) 8.3

Q23: Mean of 1, 6, 15? A) 7.3 B) 6 C) 8.3 D) 6.3

Q24: Mean of 2, 10, 12? A) 9.0 B) 7.0 C) 10 D) 8.0

Q25: Mean of 4, 10, 13? A) 9.0 B) 10 C) 10.0 D) 8.0

Q26: Mean of 1, 9, 11? A) 6.0 B) 7.0 C) 8.0 D) 9

Q27: Mean of 2, 10, 13? A) 7.3 B) 8.3 C) 10 D) 9.3

Q28: Mean of 5, 6, 12? A) 6.7 B) 7.7 C) 8.7 D) 6

Q29: Mean of 2, 9, 15? A) 8.7 B) 9.7 C) 7.7 D) 9

Q30: Mean of 4, 10, 13? A) 10 B) 8.0 C) 9.0 D) 10.0

Q31: Mean of 2, 10, 12? A) 10 B) 9.0 C) 7.0 D) 8.0

Q32: Mean of 5, 10, 13? A) 10 B) 10.3 C) 9.3 D) 8.3

Q33: Mean of 3, 10, 11? A) 10 B) 7.0 C) 8.0 D) 9.0

Q34: Mean of 5, 7, 13? A) 9.3 B) 7 C) 7.3 D) 8.3

Q35: Mean of 3, 7, 13? A) 8.7 B) 7 C) 6.7 D) 7.7

Q36: Mean of 2, 10, 11? A) 10 B) 8.7 C) 6.7 D) 7.7

Q37: Mean of 5, 8, 13? A) 8 B) 9.7 C) 7.7 D) 8.7

Q38: Mean of 2, 9, 15? A) 9 B) 8.7 C) 9.7 D) 7.7

Q39: Mean of 1, 8, 12? A) 8 B) 8.0 C) 7.0 D) 6.0

Q40: Mean of 1, 10, 15? A) 10 B) 9.7 C) 7.7 D) 8.7

Q41: Mean of 3, 10, 15? A) 8.3 B) 9.3 C) 10 D) 10.3

Q42: Mean of 3, 8, 12? A) 6.7 B) 8.7 C) 7.7 D) 8

Q43: Mean of 2, 9, 13? A) 7.0 B) 8.0 C) 9 D) 9.0

Q44: Mean of 4, 7, 14? A) 7 B) 7.3 C) 8.3 D) 9.3

Q45: Mean of 5, 9, 12? A) 9 B) 9.7 C) 8.7 D) 7.7

Q46: Mean of 2, 7, 14? A) 7 B) 6.7 C) 7.7 D) 8.7

Q47: Mean of 1, 9, 12? A) 7.3 B) 8.3 C) 6.3 D) 9

Q48: Mean of 1, 10, 12? A) 8.7 B) 10 C) 6.7 D) 7.7

Q49: Mean of 4, 9, 11? A) 9.0 B) 7.0 C) 9 D) 8.0

Q50: Mean of 2, 7, 11? A) 7.7 B) 7 C) 6.7 D) 5.7

Q51: Mean of 1, 6, 15? A) 8.3 B) 7.3 C) 6 D) 6.3

Q52: Mean of 2, 7, 14? A) 6.7 B) 8.7 C) 7.7 D) 7

Q53: Mean of 3, 9, 12? A) 7.0 B) 9 C) 8.0 D) 9.0

Q54: Mean of 5, 6, 11? A) 6.3 B) 8.3 C) 6 D) 7.3

Q55: Mean of 1, 10, 14? A) 10 B) 7.3 C) 8.3 D) 9.3

Q56: Mean of 1, 7, 14? A) 6.3 B) 8.3 C) 7.3 D) 7

- Q57: Mean of 3, 7, 14? A) 7.0 B) 7 C) 9.0 D) 8.0
- Q58: Mean of 1, 7, 11? A) 7 B) 6.3 C) 7.3 D) 5.3
- Q59: Mean of 5, 8, 11? A) 9.0 B) 8 C) 8.0 D) 7.0
- Q60: Mean of 5, 7, 12? A) 8.0 B) 9.0 C) 7.0 D) 7
- Q61: Mean of 5, 7, 14? A) 8.7 B) 7 C) 7.7 D) 9.7
- Q62: Mean of 5, 8, 13? A) 8 B) 7.7 C) 9.7 D) 8.7
- Q63: Mean of 3, 8, 11? A) 8.3 B) 6.3 C) 8 D) 7.3
- Q64: Mean of 3, 7, 14? A) 8.0 B) 9.0 C) 7.0 D) 7
- Q65: Mean of 1, 6, 15? A) 7.3 B) 8.3 C) 6.3 D) 6
- Q66: Mean of 2, 6, 13? A) 6.0 B) 6 C) 7.0 D) 8.0
- Q67: Mean of 3, 8, 14? A) 8.3 B) 7.3 C) 9.3 D) 8
- Q68: Mean of 5, 8, 12? A) 8.3 B) 7.3 C) 8 D) 9.3
- Q69: Mean of 5, 9, 15? A) 10.7 B) 9.7 C) 8.7 D) 9
- Q70: Mean of 4, 6, 15? A) 9.3 B) 8.3 C) 7.3 D) 6
- Q71: Mean of 1, 7, 13? A) 8.0 B) 6.0 C) 7 D) 7.0
- Q72: Mean of 3, 10, 14? A) 10 B) 8.0 C) 9.0 D) 10.0
- Q73: Mean of 3, 8, 12? A) 8 B) 7.7 C) 8.7 D) 6.7
- Q74: Mean of 5, 9, 12? A) 9 B) 7.7 C) 8.7 D) 9.7
- Q75: Mean of 2, 6, 12? A) 7.7 B) 6.7 C) 5.7 D) 6
- Q76: Mean of 4, 8, 11? A) 8.7 B) 8 C) 6.7 D) 7.7
- Q77: Mean of 4, 10, 12? A) 7.7 B) 9.7 C) 10 D) 8.7
- Q78: Mean of 2, 6, 12? A) 5.7 B) 7.7 C) 6 D) 6.7
- Q79: Mean of 2, 7, 14? A) 7.7 B) 7 C) 6.7 D) 8.7
- Q80: Mean of 4, 9, 13? A) 9.7 B) 8.7 C) 7.7 D) 9
- Q81: Mean of 3, 6, 12? A) 8.0 B) 6 C) 6.0 D) 7.0
- Q82: Mean of 5, 7, 15? A) 8.0 B) 7 C) 9.0 D) 10.0
- Q83: Mean of 4, 9, 15? A) 9.3 B) 10.3 C) 9 D) 8.3
- Q84: Mean of 2, 9, 12? A) 9 B) 8.7 C) 7.7 D) 6.7
- Q85: Mean of 2, 7, 14? A) 6.7 B) 8.7 C) 7 D) 7.7
- Q86: Mean of 2, 10, 15? A) 10 B) 10.0 C) 8.0 D) 9.0
- Q87: Mean of 4, 8, 14? A) 9.7 B) 7.7 C) 8.7 D) 8
- Q88: Mean of 3, 9, 12? A) 9.0 B) 9 C) 8.0 D) 7.0

Q89: Mean of 1, 8, 15? A) 9.0 B) 8 C) 8.0 D) 7.0

Q90: Mean of 3, 7, 15? A) 9.3 B) 7.3 C) 7 D) 8.3

Q91: Mean of 5, 6, 13? A) 6 B) 8.0 C) 7.0 D) 9.0

Q92: Mean of 1, 7, 13? A) 8.0 B) 7 C) 6.0 D) 7.0

Q93: Mean of 5, 9, 11? A) 7.3 B) 9 C) 9.3 D) 8.3

Q94: Mean of 3, 6, 13? A) 6 B) 7.3 C) 8.3 D) 6.3

Q95: Mean of 3, 9, 13? A) 9 B) 8.3 C) 7.3 D) 9.3

Q96: Mean of 3, 9, 15? A) 10.0 B) 9 C) 8.0 D) 9.0

Q97: Mean of 1, 10, 14? A) 9.3 B) 8.3 C) 7.3 D) 10

Q98: Mean of 3, 7, 12? A) 8.3 B) 6.3 C) 7.3 D) 7

Q99: Mean of 2, 7, 12? A) 7.0 B) 7 C) 6.0 D) 8.0

Q100: Mean of 4, 7, 13? A) 8.0 B) 7 C) 9.0 D) 7.0

Level 2 (Advanced)

Q1: Find the median of the data: 1, 4, 7, 7 A) 4 B) 6.5 C) 7 D) 5.5

Q2: Find the median of the data: 1, 1, 7, 8 A) 1 B) 7 C) 5.0 D) 4.0

Q3: Find the median of the data: 4, 3, 7, 8 A) 4 B) 7 C) 5.5 D) 6.5

Q4: Find the median of the data: 5, 3, 8, 6 A) 5 B) 6.5 C) 6 D) 5.5

Q5: Find the median of the data: 3, 4, 8, 9 A) 4 B) 8 C) 6.0 D) 7.0

Q6: Find the median of the data: 1, 3, 8, 9 A) 6.5 B) 5.5 C) 3 D) 8

Q7: Find the median of the data: 4, 3, 10, 10 A) 10 B) 7.0 C) 8.0 D) 4

Q8: Find the median of the data: 4, 5, 9, 8 A) 7.5 B) 8 C) 5 D) 6.5

Q9: Find the median of the data: 2, 5, 6, 7 A) 6 B) 5 C) 6.5 D) 5.5

Q10: Find the median of the data: 2, 5, 9, 6 A) 5.5 B) 5 C) 6 D) 6.5

Q11: Find the median of the data: 1, 3, 9, 9 A) 7.0 B) 3 C) 6.0 D) 9

Q12: Find the median of the data: 2, 1, 9, 9 A) 5.5 B) 2 C) 9 D) 6.5

Q13: Find the median of the data: 1, 3, 8, 10 A) 3 B) 6.5 C) 5.5 D) 8

Q14: Find the median of the data: 1, 3, 9, 6 A) 3 B) 4.5 C) 6 D) 5.5

Q15: Find the median of the data: 2, 3, 10, 6 A) 3 B) 5.5 C) 4.5 D) 6

Q16: Find the median of the data: 4, 4, 7, 6 A) 4 B) 6 C) 5.0 D) 6.0

Q17: Find the median of the data: 3, 3, 7, 6 A) 3 B) 6 C) 4.5 D) 5.5

Q18: Find the median of the data: 4, 1, 8, 9 A) 7.0 B) 6.0 C) 4 D) 8

Q19: Find the median of the data: 3, 2, 6, 6 A) 4.5 B) 3 C) 5.5 D) 6

Q20: Find the median of the data: 2, 2, 8, 9 A) 2 B) 5.0 C) 6.0 D) 8

Q21: Find the median of the data: 4, 3, 10, 9 A) 7.5 B) 9 C) 4 D) 6.5

Q22: Find the median of the data: 1, 5, 10, 7 A) 6.0 B) 7.0 C) 7 D) 5

Q23: Find the median of the data: 1, 2, 9, 7 A) 2 B) 4.5 C) 5.5 D) 7

Q24: Find the median of the data: 4, 3, 10, 6 A) 4 B) 6.0 C) 5.0 D) 6

Q25: Find the median of the data: 5, 1, 6, 7 A) 5 B) 5.5 C) 6 D) 6.5

Q26: Find the median of the data: 5, 4, 7, 8 A) 7 B) 5 C) 6.0 D) 7.0

Q27: Find the median of the data: 3, 3, 6, 8 A) 5.5 B) 4.5 C) 6 D) 3

Q28: Find the median of the data: 4, 4, 9, 9 A) 6.5 B) 9 C) 7.5 D) 4

Q29: Find the median of the data: 5, 3, 6, 7 A) 5.5 B) 5 C) 6.5 D) 6

Q30: Find the median of the data: 2, 5, 10, 7 A) 6.0 B) 5 C) 7.0 D) 7

Q31: Find the median of the data: 4, 3, 10, 6 A) 6.0 B) 4 C) 6 D) 5.0

Q32: Find the median of the data: 1, 5, 9, 6 A) 6.5 B) 5.5 C) 5 D) 6

Q33: Find the median of the data: 4, 5, 10, 6 A) 6 B) 5.5 C) 6.5 D) 5

Q34: Find the median of the data: 2, 4, 10, 9 A) 4 B) 7.5 C) 9 D) 6.5

Q35: Find the median of the data: 1, 3, 9, 9 A) 3 B) 7.0 C) 6.0 D) 9

Q36: Find the median of the data: 2, 5, 8, 8 A) 6.5 B) 8 C) 7.5 D) 5

Q37: Find the median of the data: 2, 1, 9, 6 A) 5.0 B) 2 C) 6 D) 4.0

Q38: Find the median of the data: 3, 5, 10, 8 A) 8 B) 7.5 C) 6.5 D) 5

Q39: Find the median of the data: 2, 5, 9, 7 A) 5 B) 7.0 C) 6.0 D) 7

Q40: Find the median of the data: 2, 4, 7, 9 A) 6.5 B) 5.5 C) 7 D) 4

Q41: The difference between the highest and lowest values in a data set is called: A) Mean B) Median
C) Range D) Mode

Q42: The difference between the highest and lowest values in a data set is called: A) Mode B) Range
C) Median D) Mean

Q43: The difference between the highest and lowest values in a data set is called: A) Range B) Mean
C) Median D) Mode

Q44: The difference between the highest and lowest values in a data set is called: A) Median B) Range
C) Mode D) Mean

Q45: The difference between the highest and lowest values in a data set is called: A) Mean B) Median
C) Mode D) Range

Q46: The difference between the highest and lowest values in a data set is called: A) Mean B) Median
C) Range D) Mode

Q47: The difference between the highest and lowest values in a data set is called: A) Mean B) Mode
C) Median D) Range

Q48: The difference between the highest and lowest values in a data set is called: A) Mean B) Median
C) Range D) Mode

Q49: The difference between the highest and lowest values in a data set is called: A) Range B) Mean
C) Median D) Mode

Q50: The difference between the highest and lowest values in a data set is called: A) Mode B) Median
C) Range D) Mean

Topic 16: Probability

Explanation: The measure of how likely an event is to occur, ranging from 0 (impossible) to 1 (certain).

Solved Examples:

1. $P(\text{Event}) = \text{Favorable} / \text{Total Outcomes}$.
2. Probability of flipping Heads is $1/2$.
3. Maximum probability is 1.
4. Impossible events have a probability of 0.

Level 1 (Standard)

- Q1: Probability of picking 1 red ball from 2 red and 12 others? A) $2/14$ B) $1/2$ C) $1/14$ D) $14/2$
- Q2: Probability of picking 1 red ball from 1 red and 12 others? A) $13/1$ B) 0 C) $1/13$ D) $1/1$
- Q3: Probability of picking 1 red ball from 1 red and 4 others? A) $1/1$ B) 0 C) $5/1$ D) $1/5$
- Q4: Probability of picking 1 red ball from 2 red and 6 others? A) $1/2$ B) $2/8$ C) $8/2$ D) $1/8$
- Q5: Probability of picking 1 red ball from 1 red and 6 others? A) $1/1$ B) $1/7$ C) $7/1$ D) 0
- Q6: Probability of picking 1 red ball from 1 red and 16 others? A) $1/1$ B) $17/1$ C) $1/17$ D) 0
- Q7: Probability of picking 1 red ball from 4 red and 3 others? A) $1/7$ B) $7/4$ C) $1/4$ D) $4/7$
- Q8: Probability of picking 1 red ball from 3 red and 14 others? A) $17/3$ B) $1/17$ C) $3/17$ D) $1/3$
- Q9: Probability of picking 1 red ball from 1 red and 13 others? A) 0 B) $1/14$ C) $1/1$ D) $14/1$
- Q10: Probability of picking 1 red ball from 3 red and 5 others? A) $1/3$ B) $3/8$ C) $8/3$ D) $1/8$
- Q11: Probability of picking 1 red ball from 3 red and 7 others? A) $10/3$ B) $1/10$ C) $1/3$ D) $3/10$
- Q12: Probability of picking 1 red ball from 2 red and 3 others? A) $1/5$ B) $2/5$ C) $1/2$ D) $5/2$
- Q13: Probability of picking 1 red ball from 1 red and 10 others? A) $11/1$ B) 0 C) $1/11$ D) $1/1$
- Q14: Probability of picking 1 red ball from 2 red and 5 others? A) $2/7$ B) $1/2$ C) $7/2$ D) $1/7$
- Q15: Probability of picking 1 red ball from 1 red and 10 others? A) $1/11$ B) $11/1$ C) 0 D) $1/1$
- Q16: Probability of picking 1 red ball from 4 red and 15 others? A) $4/19$ B) $19/4$ C) $1/19$ D) $1/4$
- Q17: Probability of picking 1 red ball from 3 red and 8 others? A) $1/11$ B) $1/3$ C) $3/11$ D) $11/3$
- Q18: Probability of picking 1 red ball from 1 red and 16 others? A) $17/1$ B) 0 C) $1/17$ D) $1/1$
- Q19: Probability of picking 1 red ball from 4 red and 16 others? A) $4/20$ B) $1/20$ C) $20/4$ D) $1/4$
- Q20: Probability of picking 1 red ball from 1 red and 14 others? A) $1/1$ B) $1/15$ C) $15/1$ D) 0
- Q21: Probability of picking 1 red ball from 3 red and 13 others? A) $1/16$ B) $1/3$ C) $16/3$ D) $3/16$
- Q22: Probability of picking 1 red ball from 3 red and 3 others? A) $3/6$ B) $1/6$ C) $6/3$ D) $1/3$
- Q23: Probability of picking 1 red ball from 1 red and 16 others? A) $1/1$ B) $17/1$ C) 0 D) $1/17$
- Q24: Probability of picking 1 red ball from 2 red and 16 others? A) $18/2$ B) $1/2$ C) $2/18$ D) $1/18$

- Q25: Probability of picking 1 red ball from 3 red and 8 others? A) $\frac{1}{3}$ B) $\frac{11}{3}$ C) $\frac{3}{11}$ D) $\frac{1}{11}$
- Q26: Probability of picking 1 red ball from 1 red and 7 others? A) $\frac{8}{1}$ B) $\frac{1}{8}$ C) 0 D) $\frac{1}{1}$
- Q27: Probability of picking 1 red ball from 2 red and 13 others? A) $\frac{2}{15}$ B) $\frac{15}{2}$ C) $\frac{1}{15}$ D) $\frac{1}{2}$
- Q28: Probability of picking 1 red ball from 1 red and 11 others? A) $\frac{1}{1}$ B) $\frac{1}{12}$ C) $\frac{12}{1}$ D) 0
- Q29: Probability of picking 1 red ball from 1 red and 10 others? A) $\frac{11}{1}$ B) $\frac{1}{11}$ C) 0 D) $\frac{1}{1}$
- Q30: Probability of picking 1 red ball from 4 red and 14 others? A) $\frac{1}{4}$ B) $\frac{4}{18}$ C) $\frac{18}{4}$ D) $\frac{1}{18}$
- Q31: Probability of picking 1 red ball from 1 red and 10 others? A) $\frac{1}{1}$ B) $\frac{1}{11}$ C) $\frac{11}{1}$ D) 0
- Q32: Probability of picking 1 red ball from 4 red and 9 others? A) $\frac{1}{13}$ B) $\frac{13}{4}$ C) $\frac{1}{4}$ D) $\frac{4}{13}$
- Q33: Probability of picking 1 red ball from 3 red and 7 others? A) $\frac{10}{3}$ B) $\frac{1}{10}$ C) $\frac{3}{10}$ D) $\frac{1}{3}$
- Q34: Probability of picking 1 red ball from 1 red and 13 others? A) 0 B) $\frac{1}{1}$ C) $\frac{14}{1}$ D) $\frac{1}{14}$
- Q35: Probability of picking 1 red ball from 4 red and 5 others? A) $\frac{9}{4}$ B) $\frac{1}{4}$ C) $\frac{1}{9}$ D) $\frac{4}{9}$
- Q36: Probability of picking 1 red ball from 1 red and 14 others? A) $\frac{1}{1}$ B) 0 C) $\frac{15}{1}$ D) $\frac{1}{15}$
- Q37: Probability of picking 1 red ball from 3 red and 15 others? A) $\frac{3}{18}$ B) $\frac{1}{3}$ C) $\frac{18}{3}$ D) $\frac{1}{18}$
- Q38: Probability of picking 1 red ball from 1 red and 16 others? A) 0 B) $\frac{1}{17}$ C) $\frac{17}{1}$ D) $\frac{1}{1}$
- Q39: Probability of picking 1 red ball from 3 red and 14 others? A) $\frac{1}{17}$ B) $\frac{3}{17}$ C) $\frac{17}{3}$ D) $\frac{1}{3}$
- Q40: Probability of picking 1 red ball from 1 red and 15 others? A) $\frac{16}{1}$ B) $\frac{1}{1}$ C) 0 D) $\frac{1}{16}$
- Q41: Probability of picking 1 red ball from 2 red and 3 others? A) $\frac{1}{2}$ B) $\frac{1}{5}$ C) $\frac{5}{2}$ D) $\frac{2}{5}$
- Q42: Probability of picking 1 red ball from 2 red and 10 others? A) $\frac{1}{12}$ B) $\frac{12}{2}$ C) $\frac{1}{2}$ D) $\frac{2}{12}$
- Q43: Probability of picking 1 red ball from 1 red and 4 others? A) $\frac{5}{1}$ B) 0 C) $\frac{1}{5}$ D) $\frac{1}{1}$
- Q44: Probability of picking 1 red ball from 3 red and 3 others? A) $\frac{1}{3}$ B) $\frac{1}{6}$ C) $\frac{6}{3}$ D) $\frac{3}{6}$
- Q45: Probability of picking 1 red ball from 3 red and 14 others? A) $\frac{1}{17}$ B) $\frac{1}{3}$ C) $\frac{3}{17}$ D) $\frac{17}{3}$
- Q46: Probability of picking 1 red ball from 2 red and 6 others? A) $\frac{1}{2}$ B) $\frac{8}{2}$ C) $\frac{2}{8}$ D) $\frac{1}{8}$
- Q47: Probability of picking 1 red ball from 1 red and 18 others? A) $\frac{1}{19}$ B) 0 C) $\frac{1}{1}$ D) $\frac{19}{1}$
- Q48: Probability of picking 1 red ball from 3 red and 17 others? A) $\frac{3}{20}$ B) $\frac{20}{3}$ C) $\frac{1}{3}$ D) $\frac{1}{20}$
- Q49: Probability of picking 1 red ball from 1 red and 11 others? A) 0 B) $\frac{1}{12}$ C) $\frac{12}{1}$ D) $\frac{1}{1}$
- Q50: Probability of picking 1 red ball from 2 red and 14 others? A) $\frac{1}{2}$ B) $\frac{2}{16}$ C) $\frac{1}{16}$ D) $\frac{16}{2}$
- Q51: Probability of picking 1 red ball from 4 red and 3 others? A) $\frac{7}{4}$ B) $\frac{1}{7}$ C) $\frac{1}{4}$ D) $\frac{4}{7}$
- Q52: Probability of picking 1 red ball from 4 red and 7 others? A) $\frac{1}{11}$ B) $\frac{11}{4}$ C) $\frac{4}{11}$ D) $\frac{1}{4}$
- Q53: Probability of picking 1 red ball from 3 red and 5 others? A) $\frac{3}{8}$ B) $\frac{1}{3}$ C) $\frac{1}{8}$ D) $\frac{8}{3}$
- Q54: Probability of picking 1 red ball from 4 red and 10 others? A) $\frac{1}{4}$ B) $\frac{4}{14}$ C) $\frac{1}{14}$ D) $\frac{14}{4}$
- Q55: Probability of picking 1 red ball from 2 red and 7 others? A) $\frac{2}{9}$ B) $\frac{1}{2}$ C) $\frac{9}{2}$ D) $\frac{1}{9}$
- Q56: Probability of picking 1 red ball from 4 red and 7 others? A) $\frac{1}{11}$ B) $\frac{1}{4}$ C) $\frac{4}{11}$ D) $\frac{11}{4}$

- Q57: Probability of picking 1 red ball from 2 red and 16 others? A) $\frac{18}{2}$ B) $\frac{2}{18}$ C) $\frac{1}{2}$ D) $\frac{1}{18}$
- Q58: Probability of picking 1 red ball from 4 red and 5 others? A) $\frac{9}{4}$ B) $\frac{1}{4}$ C) $\frac{1}{9}$ D) $\frac{4}{9}$
- Q59: Probability of picking 1 red ball from 1 red and 11 others? A) $\frac{1}{1}$ B) $\frac{12}{1}$ C) $\frac{1}{12}$ D) 0
- Q60: Probability of picking 1 red ball from 4 red and 1 others? A) $\frac{4}{5}$ B) $\frac{1}{5}$ C) $\frac{5}{4}$ D) $\frac{1}{4}$
- Q61: Probability of picking 1 red ball from 1 red and 7 others? A) 0 B) $\frac{1}{8}$ C) $\frac{8}{1}$ D) $\frac{1}{1}$
- Q62: Probability of picking 1 red ball from 4 red and 5 others? A) $\frac{4}{9}$ B) $\frac{9}{4}$ C) $\frac{1}{9}$ D) $\frac{1}{4}$
- Q63: Probability of picking 1 red ball from 4 red and 2 others? A) $\frac{1}{4}$ B) $\frac{4}{6}$ C) $\frac{6}{4}$ D) $\frac{1}{6}$
- Q64: Probability of picking 1 red ball from 4 red and 2 others? A) $\frac{1}{6}$ B) $\frac{6}{4}$ C) $\frac{4}{6}$ D) $\frac{1}{4}$
- Q65: Probability of picking 1 red ball from 4 red and 7 others? A) $\frac{4}{11}$ B) $\frac{1}{4}$ C) $\frac{1}{11}$ D) $\frac{11}{4}$
- Q66: Probability of picking 1 red ball from 4 red and 16 others? A) $\frac{20}{4}$ B) $\frac{1}{4}$ C) $\frac{1}{20}$ D) $\frac{4}{20}$
- Q67: Probability of picking 1 red ball from 1 red and 11 others? A) 0 B) $\frac{1}{1}$ C) $\frac{1}{12}$ D) $\frac{12}{1}$
- Q68: Probability of picking 1 red ball from 3 red and 3 others? A) $\frac{1}{3}$ B) $\frac{1}{6}$ C) $\frac{3}{6}$ D) $\frac{6}{3}$
- Q69: Probability of picking 1 red ball from 2 red and 11 others? A) $\frac{2}{13}$ B) $\frac{1}{13}$ C) $\frac{13}{2}$ D) $\frac{1}{2}$
- Q70: Probability of picking 1 red ball from 2 red and 6 others? A) $\frac{1}{2}$ B) $\frac{2}{8}$ C) $\frac{8}{2}$ D) $\frac{1}{8}$
- Q71: Probability of picking 1 red ball from 2 red and 8 others? A) $\frac{2}{10}$ B) $\frac{10}{2}$ C) $\frac{1}{2}$ D) $\frac{1}{10}$
- Q72: Probability of picking 1 red ball from 1 red and 13 others? A) $\frac{1}{1}$ B) $\frac{14}{1}$ C) 0 D) $\frac{1}{14}$
- Q73: Probability of picking 1 red ball from 2 red and 12 others? A) $\frac{1}{14}$ B) $\frac{2}{14}$ C) $\frac{1}{2}$ D) $\frac{14}{2}$
- Q74: Probability of picking 1 red ball from 2 red and 8 others? A) $\frac{1}{2}$ B) $\frac{2}{10}$ C) $\frac{10}{2}$ D) $\frac{1}{10}$
- Q75: Probability of picking 1 red ball from 4 red and 1 others? A) $\frac{1}{5}$ B) $\frac{4}{5}$ C) $\frac{5}{4}$ D) $\frac{1}{4}$
- Q76: Probability of picking 1 red ball from 3 red and 7 others? A) $\frac{10}{3}$ B) $\frac{1}{10}$ C) $\frac{1}{3}$ D) $\frac{3}{10}$
- Q77: Probability of picking 1 red ball from 4 red and 12 others? A) $\frac{1}{16}$ B) $\frac{1}{4}$ C) $\frac{16}{4}$ D) $\frac{4}{16}$
- Q78: Probability of picking 1 red ball from 1 red and 19 others? A) $\frac{1}{1}$ B) $\frac{20}{1}$ C) 0 D) $\frac{1}{20}$
- Q79: Probability of picking 1 red ball from 2 red and 10 others? A) $\frac{1}{2}$ B) $\frac{1}{12}$ C) $\frac{2}{12}$ D) $\frac{12}{2}$
- Q80: Probability of picking 1 red ball from 3 red and 11 others? A) $\frac{3}{14}$ B) $\frac{1}{14}$ C) $\frac{14}{3}$ D) $\frac{1}{3}$
- Q81: Probability of picking 1 red ball from 4 red and 9 others? A) $\frac{4}{13}$ B) $\frac{1}{4}$ C) $\frac{13}{4}$ D) $\frac{1}{13}$
- Q82: Probability of picking 1 red ball from 3 red and 2 others? A) $\frac{3}{5}$ B) $\frac{5}{3}$ C) $\frac{1}{3}$ D) $\frac{1}{5}$
- Q83: Probability of picking 1 red ball from 1 red and 19 others? A) $\frac{20}{1}$ B) $\frac{1}{20}$ C) 0 D) $\frac{1}{1}$
- Q84: Probability of picking 1 red ball from 4 red and 5 others? A) $\frac{1}{4}$ B) $\frac{4}{9}$ C) $\frac{1}{9}$ D) $\frac{9}{4}$
- Q85: Probability of picking 1 red ball from 4 red and 12 others? A) $\frac{1}{16}$ B) $\frac{16}{4}$ C) $\frac{1}{4}$ D) $\frac{4}{16}$
- Q86: Probability of picking 1 red ball from 2 red and 14 others? A) $\frac{1}{16}$ B) $\frac{16}{2}$ C) $\frac{1}{2}$ D) $\frac{2}{16}$
- Q87: Probability of picking 1 red ball from 3 red and 5 others? A) $\frac{8}{3}$ B) $\frac{3}{8}$ C) $\frac{1}{8}$ D) $\frac{1}{3}$
- Q88: Probability of picking 1 red ball from 3 red and 10 others? A) $\frac{3}{13}$ B) $\frac{1}{3}$ C) $\frac{13}{3}$ D) $\frac{1}{13}$

Q89: Probability of picking 1 red ball from 3 red and 10 others? A) $\frac{1}{13}$ B) $\frac{1}{3}$ C) $\frac{3}{13}$ D) $\frac{13}{3}$

Q90: Probability of picking 1 red ball from 4 red and 4 others? A) $\frac{4}{8}$ B) $\frac{8}{4}$ C) $\frac{1}{8}$ D) $\frac{1}{4}$

Q91: Probability of picking 1 red ball from 1 red and 13 others? A) $\frac{1}{1}$ B) 0 C) $\frac{14}{1}$ D) $\frac{1}{14}$

Q92: Probability of picking 1 red ball from 2 red and 17 others? A) $\frac{19}{2}$ B) $\frac{2}{19}$ C) $\frac{1}{2}$ D) $\frac{1}{19}$

Q93: Probability of picking 1 red ball from 4 red and 10 others? A) $\frac{1}{4}$ B) $\frac{14}{4}$ C) $\frac{4}{14}$ D) $\frac{1}{14}$

Q94: Probability of picking 1 red ball from 4 red and 1 others? A) $\frac{1}{5}$ B) $\frac{5}{4}$ C) $\frac{1}{4}$ D) $\frac{4}{5}$

Q95: Probability of picking 1 red ball from 1 red and 7 others? A) $\frac{1}{1}$ B) $\frac{1}{8}$ C) $\frac{8}{1}$ D) 0

Q96: Probability of picking 1 red ball from 3 red and 15 others? A) $\frac{1}{18}$ B) $\frac{18}{3}$ C) $\frac{1}{3}$ D) $\frac{3}{18}$

Q97: Probability of picking 1 red ball from 3 red and 6 others? A) $\frac{9}{3}$ B) $\frac{3}{9}$ C) $\frac{1}{3}$ D) $\frac{1}{9}$

Q98: Probability of picking 1 red ball from 3 red and 4 others? A) $\frac{1}{3}$ B) $\frac{3}{7}$ C) $\frac{1}{7}$ D) $\frac{7}{3}$

Q99: Probability of picking 1 red ball from 1 red and 17 others? A) $\frac{18}{1}$ B) 0 C) $\frac{1}{18}$ D) $\frac{1}{1}$

Q100: Probability of picking 1 red ball from 3 red and 17 others? A) $\frac{3}{20}$ B) $\frac{1}{3}$ C) $\frac{1}{20}$ D) $\frac{20}{3}$

Level 2 (Advanced)

Q1: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{13}$ C) $\frac{4}{13}$ D) $\frac{1}{4}$

Q2: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{4}$ C) $\frac{4}{13}$ D) $\frac{1}{52}$

Q3: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{4}$ C) $\frac{1}{52}$ D) $\frac{4}{13}$

Q4: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{4}$ D) $\frac{1}{52}$

Q5: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{13}$ C) $\frac{1}{4}$ D) $\frac{4}{13}$

Q6: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{52}$ D) $\frac{1}{4}$

Q7: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{4}$ B) $\frac{1}{13}$ C) $\frac{4}{13}$ D) $\frac{1}{52}$

Q8: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{1}{4}$ D) $\frac{1}{52}$

Q9: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{4}$ D) $\frac{4}{13}$

Q10: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{4}{13}$ C) $\frac{1}{4}$ D) $\frac{1}{13}$

Q11: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{1}{4}$ D) $\frac{1}{52}$

Q12: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{52}$ C) $\frac{4}{13}$ D) $\frac{1}{4}$

Q13: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{52}$ C) $\frac{4}{13}$ D) $\frac{1}{4}$

Q14: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{13}$
D) $\frac{1}{4}$

Q15: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{13}$
D) $\frac{1}{4}$

Q16: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{4}$ B) $\frac{4}{13}$ C) $\frac{1}{13}$
D) $\frac{1}{52}$

Q17: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{4}$ C) $\frac{1}{52}$
D) $\frac{4}{13}$

Q18: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{4}$ C) $\frac{4}{13}$
D) $\frac{1}{13}$

Q19: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{52}$
D) $\frac{1}{4}$

Q20: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{1}{52}$
D) $\frac{1}{4}$

Q21: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{4}$
D) $\frac{1}{13}$

Q22: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{4}$
D) $\frac{1}{52}$

Q23: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{4}$
D) $\frac{1}{52}$

Q24: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{1}{4}$
D) $\frac{1}{52}$

Q25: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{4}$ C) $\frac{1}{13}$
D) $\frac{1}{52}$

Q26: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{4}$ C) $\frac{1}{52}$
D) $\frac{1}{13}$

Q27: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{1}{4}$ C) $\frac{1}{52}$
D) $\frac{4}{13}$

Q28: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{4}$ B) $\frac{1}{52}$ C) $\frac{1}{13}$
D) $\frac{4}{13}$

Q29: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{1}{4}$
D) $\frac{1}{52}$

Q30: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{4}$ C) $\frac{4}{13}$
D) $\frac{1}{13}$

Q31: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{4}$
D) $\frac{1}{13}$

Q32: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{4}$ B) $\frac{1}{13}$ C) $\frac{1}{52}$
D) $\frac{4}{13}$

Q33: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{4}$
D) $\frac{1}{13}$

Q34: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{4}$ C) $\frac{4}{13}$
D) $\frac{1}{13}$

Q35: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{13}$ C) $\frac{4}{13}$
D) $\frac{1}{4}$

Q36: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{4}$ B) $\frac{1}{52}$ C) $\frac{4}{13}$ D) $\frac{1}{13}$

Q37: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{13}$ D) $\frac{1}{4}$

Q38: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{1}{4}$ D) $\frac{1}{52}$

Q39: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{1}{52}$ B) $\frac{1}{4}$ C) $\frac{4}{13}$ D) $\frac{1}{13}$

Q40: In a standard deck of 52 cards, the probability of drawing an Ace is: A) $\frac{4}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{4}$ D) $\frac{1}{13}$

Q41: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{12}{36}$ B) $\frac{1}{6}$ C) $\frac{1}{36}$ D) $\frac{1}{12}$

Q42: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{36}$ B) $\frac{1}{6}$ C) $\frac{1}{12}$ D) $\frac{12}{36}$

Q43: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{12}$ B) $\frac{1}{36}$ C) $\frac{12}{36}$ D) $\frac{1}{6}$

Q44: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{36}$ B) $\frac{1}{6}$ C) $\frac{1}{12}$ D) $\frac{12}{36}$

Q45: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{6}$ B) $\frac{1}{36}$ C) $\frac{1}{12}$ D) $\frac{12}{36}$

Q46: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{36}$ B) $\frac{1}{6}$ C) $\frac{1}{12}$ D) $\frac{12}{36}$

Q47: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{6}$ B) $\frac{12}{36}$ C) $\frac{1}{36}$ D) $\frac{1}{12}$

Q48: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{1}{6}$ B) $\frac{1}{12}$ C) $\frac{1}{36}$ D) $\frac{12}{36}$

Q49: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{12}{36}$ B) $\frac{1}{12}$ C) $\frac{1}{6}$ D) $\frac{1}{36}$

Q50: If two dice are rolled, the probability of getting a sum of 12 is: A) $\frac{12}{36}$ B) $\frac{1}{12}$ C) $\frac{1}{6}$ D) $\frac{1}{36}$

Answer Key

Rational Numbers and Decimal Numbers

Level 1:

Q1: C	Q21: D	Q41: D	Q61: B	Q81: C
Q2: D	Q22: B	Q42: B	Q62: D	Q82: A
Q3: D	Q23: A	Q43: A	Q63: C	Q83: B
Q4: A	Q24: D	Q44: C	Q64: B	Q84: C
Q5: C	Q25: B	Q45: A	Q65: A	Q85: D
Q6: C	Q26: B	Q46: B	Q66: D	Q86: D
Q7: D	Q27: B	Q47: D	Q67: D	Q87: A
Q8: C	Q28: B	Q48: C	Q68: A	Q88: A
Q9: C	Q29: C	Q49: C	Q69: D	Q89: B
Q10: B	Q30: C	Q50: A	Q70: B	Q90: A
Q11: C	Q31: D	Q51: C	Q71: D	Q91: B
Q12: A	Q32: A	Q52: C	Q72: B	Q92: B
Q13: C	Q33: A	Q53: C	Q73: B	Q93: D
Q14: C	Q34: A	Q54: D	Q74: B	Q94: C
Q15: A	Q35: D	Q55: B	Q75: B	Q95: D
Q16: D	Q36: D	Q56: A	Q76: D	Q96: A
Q17: A	Q37: D	Q57: C	Q77: A	Q97: D
Q18: A	Q38: D	Q58: A	Q78: C	Q98: C
Q19: C	Q39: A	Q59: B	Q79: C	Q99: A
Q20: B	Q40: C	Q60: C	Q80: C	Q100: C

Level 2:

Q1: B	Q11: C	Q21: B	Q31: A	Q41: B
Q2: B	Q12: B	Q22: C	Q32: B	Q42: C
Q3: D	Q13: D	Q23: B	Q33: A	Q43: A
Q4: B	Q14: C	Q24: C	Q34: D	Q44: B
Q5: B	Q15: C	Q25: D	Q35: B	Q45: B
Q6: A	Q16: A	Q26: C	Q36: B	Q46: B
Q7: D	Q17: C	Q27: A	Q37: B	Q47: B
Q8: D	Q18: D	Q28: A	Q38: A	Q48: C
Q9: A	Q19: C	Q29: A	Q39: A	Q49: A
Q10: B	Q20: B	Q30: D	Q40: C	Q50: C

Simplification

Level 1:

Q1: D	Q21: D	Q41: C	Q61: A	Q81: D
Q2: A	Q22: D	Q42: B	Q62: D	Q82: D
Q3: B	Q23: A	Q43: B	Q63: A	Q83: B
Q4: A	Q24: B	Q44: D	Q64: A	Q84: D
Q5: B	Q25: C	Q45: A	Q65: C	Q85: D
Q6: C	Q26: A	Q46: D	Q66: D	Q86: B
Q7: A	Q27: B	Q47: C	Q67: B	Q87: A
Q8: A	Q28: D	Q48: B	Q68: D	Q88: C
Q9: B	Q29: A	Q49: A	Q69: D	Q89: D
Q10: B	Q30: A	Q50: B	Q70: A	Q90: C
Q11: A	Q31: B	Q51: D	Q71: D	Q91: D
Q12: A	Q32: C	Q52: A	Q72: A	Q92: A
Q13: D	Q33: B	Q53: A	Q73: B	Q93: C
Q14: D	Q34: C	Q54: D	Q74: D	Q94: A
Q15: D	Q35: C	Q55: C	Q75: A	Q95: B
Q16: A	Q36: D	Q56: A	Q76: C	Q96: C
Q17: A	Q37: D	Q57: D	Q77: A	Q97: D
Q18: A	Q38: D	Q58: B	Q78: B	Q98: A
Q19: C	Q39: D	Q59: D	Q79: B	Q99: C
Q20: B	Q40: B	Q60: D	Q80: B	Q100: A

Level 2:

Q1: D	Q8: A	Q15: D	Q22: D	Q29: B
Q2: D	Q9: D	Q16: A	Q23: B	Q30: A
Q3: B	Q10: D	Q17: B	Q24: C	Q31: C
Q4: B	Q11: D	Q18: D	Q25: D	Q32: B
Q5: A	Q12: B	Q19: B	Q26: C	Q33: D
Q6: B	Q13: A	Q20: A	Q27: C	Q34: C
Q7: D	Q14: C	Q21: A	Q28: A	Q35: C

Q36: C	Q39: D	Q42: B	Q45: D	Q48: A
Q37: D	Q40: C	Q43: B	Q46: B	Q49: B
Q38: B	Q41: D	Q44: C	Q47: B	Q50: C

Sets

Level 1:

Q1: C	Q21: C	Q41: D	Q61: A	Q81: A
Q2: A	Q22: A	Q42: C	Q62: D	Q82: A
Q3: D	Q23: D	Q43: D	Q63: A	Q83: D
Q4: C	Q24: C	Q44: A	Q64: D	Q84: A
Q5: D	Q25: C	Q45: D	Q65: C	Q85: A
Q6: A	Q26: C	Q46: B	Q66: A	Q86: A
Q7: A	Q27: B	Q47: A	Q67: D	Q87: A
Q8: D	Q28: B	Q48: A	Q68: A	Q88: C
Q9: B	Q29: B	Q49: C	Q69: B	Q89: C
Q10: A	Q30: C	Q50: A	Q70: A	Q90: A
Q11: C	Q31: B	Q51: B	Q71: C	Q91: A
Q12: C	Q32: D	Q52: D	Q72: C	Q92: D
Q13: B	Q33: A	Q53: D	Q73: A	Q93: C
Q14: B	Q34: D	Q54: D	Q74: A	Q94: D
Q15: C	Q35: D	Q55: C	Q75: D	Q95: A
Q16: A	Q36: C	Q56: C	Q76: D	Q96: A
Q17: D	Q37: D	Q57: A	Q77: D	Q97: C
Q18: A	Q38: C	Q58: D	Q78: B	Q98: B
Q19: D	Q39: A	Q59: C	Q79: C	Q99: A
Q20: A	Q40: A	Q60: C	Q80: D	Q100: D

Level 2:

Q1: A	Q11: A	Q21: C	Q31: C	Q41: C
Q2: B	Q12: C	Q22: B	Q32: A	Q42: D
Q3: A	Q13: C	Q23: A	Q33: A	Q43: D
Q4: D	Q14: B	Q24: B	Q34: C	Q44: B
Q5: D	Q15: D	Q25: A	Q35: A	Q45: B
Q6: C	Q16: B	Q26: C	Q36: D	Q46: D
Q7: C	Q17: A	Q27: B	Q37: D	Q47: C
Q8: D	Q18: A	Q28: A	Q38: C	Q48: A
Q9: D	Q19: D	Q29: D	Q39: C	Q49: C
Q10: A	Q20: C	Q30: B	Q40: C	Q50: D

Rate, Ratio and Proportion

Level 1:

Q1: D	Q21: B	Q41: B	Q61: B	Q81: C
Q2: C	Q22: A	Q42: B	Q62: A	Q82: A
Q3: B	Q23: C	Q43: B	Q63: A	Q83: C
Q4: D	Q24: B	Q44: C	Q64: A	Q84: A
Q5: D	Q25: A	Q45: A	Q65: B	Q85: A
Q6: C	Q26: B	Q46: A	Q66: B	Q86: B
Q7: C	Q27: C	Q47: B	Q67: C	Q87: A
Q8: B	Q28: D	Q48: C	Q68: D	Q88: D
Q9: D	Q29: C	Q49: B	Q69: B	Q89: A
Q10: D	Q30: A	Q50: D	Q70: D	Q90: B
Q11: A	Q31: C	Q51: C	Q71: D	Q91: B
Q12: C	Q32: D	Q52: A	Q72: D	Q92: A
Q13: B	Q33: C	Q53: B	Q73: A	Q93: C
Q14: B	Q34: C	Q54: A	Q74: B	Q94: A
Q15: C	Q35: B	Q55: A	Q75: C	Q95: C
Q16: D	Q36: D	Q56: A	Q76: B	Q96: C
Q17: B	Q37: C	Q57: A	Q77: D	Q97: B
Q18: D	Q38: A	Q58: B	Q78: D	Q98: B
Q19: B	Q39: C	Q59: B	Q79: D	Q99: C
Q20: A	Q40: B	Q60: A	Q80: A	Q100: B

Level 2:

Q1: C	Q5: A	Q9: D	Q13: A	Q17: B
Q2: A	Q6: A	Q10: C	Q14: D	Q18: D
Q3: C	Q7: A	Q11: C	Q15: A	Q19: C
Q4: C	Q8: D	Q12: C	Q16: A	Q20: B

Q21: A	Q27: C	Q33: B	Q39: C	Q45: D
Q22: B	Q28: C	Q34: D	Q40: C	Q46: C
Q23: B	Q29: D	Q35: C	Q41: B	Q47: A
Q24: D	Q30: C	Q36: A	Q42: C	Q48: B
Q25: D	Q31: C	Q37: D	Q43: B	Q49: D
Q26: B	Q32: B	Q38: D	Q44: C	Q50: B

Financial Arithmetic

Level 1:

Q1: B	Q21: B	Q41: A	Q61: B	Q81: A
Q2: B	Q22: C	Q42: D	Q62: D	Q82: B
Q3: D	Q23: D	Q43: D	Q63: C	Q83: B
Q4: C	Q24: C	Q44: A	Q64: D	Q84: D
Q5: A	Q25: C	Q45: B	Q65: C	Q85: A
Q6: D	Q26: A	Q46: B	Q66: D	Q86: A
Q7: C	Q27: A	Q47: D	Q67: B	Q87: D
Q8: B	Q28: C	Q48: C	Q68: C	Q88: D
Q9: C	Q29: A	Q49: D	Q69: D	Q89: C
Q10: D	Q30: C	Q50: D	Q70: C	Q90: C
Q11: D	Q31: B	Q51: C	Q71: B	Q91: A
Q12: A	Q32: D	Q52: A	Q72: D	Q92: A
Q13: A	Q33: A	Q53: D	Q73: C	Q93: D
Q14: A	Q34: D	Q54: C	Q74: D	Q94: A
Q15: B	Q35: C	Q55: C	Q75: A	Q95: D
Q16: C	Q36: A	Q56: A	Q76: C	Q96: C
Q17: C	Q37: A	Q57: B	Q77: A	Q97: C
Q18: D	Q38: D	Q58: B	Q78: B	Q98: C
Q19: C	Q39: C	Q59: A	Q79: D	Q99: A
Q20: C	Q40: B	Q60: A	Q80: D	Q100: D

Level 2:

Q1: D	Q11: C	Q21: B	Q31: A	Q41: A
Q2: C	Q12: B	Q22: D	Q32: B	Q42: B
Q3: B	Q13: A	Q23: A	Q33: B	Q43: A
Q4: D	Q14: D	Q24: D	Q34: A	Q44: B
Q5: D	Q15: D	Q25: C	Q35: C	Q45: D
Q6: B	Q16: B	Q26: C	Q36: B	Q46: B
Q7: D	Q17: B	Q27: C	Q37: A	Q47: B
Q8: C	Q18: A	Q28: B	Q38: A	Q48: C
Q9: A	Q19: C	Q29: D	Q39: B	Q49: C
Q10: A	Q20: D	Q30: A	Q40: A	Q50: D

Squares and Square Roots

Level 1:

Q1: B	Q21: D	Q41: A	Q61: A	Q81: A
Q2: B	Q22: B	Q42: D	Q62: A	Q82: B
Q3: B	Q23: B	Q43: D	Q63: B	Q83: C
Q4: D	Q24: D	Q44: A	Q64: B	Q84: A
Q5: A	Q25: D	Q45: B	Q65: D	Q85: A
Q6: C	Q26: B	Q46: B	Q66: A	Q86: B
Q7: A	Q27: D	Q47: C	Q67: C	Q87: A
Q8: B	Q28: D	Q48: A	Q68: A	Q88: B
Q9: D	Q29: B	Q49: B	Q69: A	Q89: A
Q10: B	Q30: B	Q50: A	Q70: D	Q90: B
Q11: A	Q31: C	Q51: B	Q71: A	Q91: A
Q12: D	Q32: C	Q52: A	Q72: B	Q92: D
Q13: A	Q33: D	Q53: A	Q73: B	Q93: A
Q14: A	Q34: D	Q54: D	Q74: C	Q94: C
Q15: C	Q35: D	Q55: A	Q75: C	Q95: C
Q16: C	Q36: A	Q56: D	Q76: C	Q96: D
Q17: D	Q37: D	Q57: B	Q77: A	Q97: A
Q18: B	Q38: A	Q58: B	Q78: C	Q98: D
Q19: B	Q39: D	Q59: C	Q79: B	Q99: D
Q20: D	Q40: B	Q60: B	Q80: D	Q100: A

Level 2:

Q1: B	Q2: A	Q3: D	Q4: C	Q5: B
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Q6: C	Q15: A	Q24: D	Q33: A	Q42: A
Q7: B	Q16: C	Q25: D	Q34: A	Q43: A
Q8: D	Q17: A	Q26: D	Q35: C	Q44: C
Q9: C	Q18: A	Q27: A	Q36: D	Q45: B
Q10: C	Q19: D	Q28: A	Q37: D	Q46: A
Q11: C	Q20: B	Q29: D	Q38: D	Q47: B
Q12: D	Q21: B	Q30: A	Q39: B	Q48: C
Q13: C	Q22: A	Q31: D	Q40: A	Q49: D
Q14: C	Q23: A	Q32: B	Q41: C	Q50: B

Number Sequence and Patterns

Level 1:

Q1: C	Q21: C	Q41: A	Q61: B	Q81: B
Q2: B	Q22: A	Q42: C	Q62: A	Q82: D
Q3: B	Q23: B	Q43: D	Q63: B	Q83: B
Q4: A	Q24: A	Q44: C	Q64: A	Q84: B
Q5: A	Q25: B	Q45: C	Q65: B	Q85: B
Q6: C	Q26: C	Q46: D	Q66: D	Q86: C
Q7: A	Q27: B	Q47: C	Q67: D	Q87: A
Q8: A	Q28: B	Q48: A	Q68: A	Q88: B
Q9: B	Q29: C	Q49: A	Q69: C	Q89: A
Q10: C	Q30: C	Q50: C	Q70: D	Q90: B
Q11: D	Q31: B	Q51: A	Q71: B	Q91: A
Q12: C	Q32: D	Q52: D	Q72: B	Q92: B
Q13: A	Q33: D	Q53: D	Q73: C	Q93: A
Q14: B	Q34: A	Q54: B	Q74: A	Q94: A
Q15: D	Q35: B	Q55: A	Q75: C	Q95: C
Q16: B	Q36: C	Q56: C	Q76: B	Q96: B
Q17: B	Q37: A	Q57: A	Q77: C	Q97: A
Q18: C	Q38: D	Q58: A	Q78: C	Q98: C
Q19: D	Q39: B	Q59: A	Q79: D	Q99: B
Q20: A	Q40: D	Q60: B	Q80: A	Q100: A

Level 2:

Q1: A	Q11: B	Q21: D	Q31: B	Q41: C
Q2: C	Q12: B	Q22: D	Q32: D	Q42: D
Q3: C	Q13: B	Q23: C	Q33: C	Q43: B
Q4: A	Q14: C	Q24: C	Q34: A	Q44: D
Q5: A	Q15: A	Q25: C	Q35: D	Q45: D
Q6: A	Q16: A	Q26: A	Q36: D	Q46: D
Q7: C	Q17: A	Q27: D	Q37: B	Q47: D
Q8: B	Q18: A	Q28: A	Q38: A	Q48: B
Q9: C	Q19: B	Q29: C	Q39: D	Q49: B
Q10: D	Q20: A	Q30: D	Q40: A	Q50: B

Algebraic Expressions

Level 1:

Q1: B	Q21: B	Q41: D	Q61: B	Q81: A
Q2: A	Q22: B	Q42: D	Q62: B	Q82: C
Q3: C	Q23: C	Q43: B	Q63: D	Q83: C
Q4: C	Q24: D	Q44: D	Q64: C	Q84: B
Q5: A	Q25: C	Q45: A	Q65: C	Q85: B
Q6: A	Q26: B	Q46: B	Q66: B	Q86: D
Q7: B	Q27: A	Q47: D	Q67: D	Q87: D
Q8: A	Q28: D	Q48: B	Q68: A	Q88: A
Q9: B	Q29: B	Q49: B	Q69: D	Q89: D
Q10: B	Q30: A	Q50: B	Q70: C	Q90: B
Q11: B	Q31: A	Q51: D	Q71: B	Q91: B
Q12: C	Q32: B	Q52: C	Q72: D	Q92: C
Q13: A	Q33: A	Q53: C	Q73: D	Q93: A
Q14: C	Q34: D	Q54: B	Q74: A	Q94: C
Q15: D	Q35: D	Q55: C	Q75: D	Q95: D
Q16: C	Q36: C	Q56: B	Q76: A	Q96: C
Q17: D	Q37: D	Q57: A	Q77: B	Q97: A
Q18: C	Q38: C	Q58: B	Q78: C	Q98: A
Q19: D	Q39: C	Q59: A	Q79: D	Q99: A
Q20: D	Q40: C	Q60: C	Q80: B	Q100: D

Level 2:

Q1: B	Q11: D	Q21: D	Q31: D	Q41: D
Q2: B	Q12: D	Q22: A	Q32: C	Q42: D
Q3: B	Q13: C	Q23: B	Q33: D	Q43: C
Q4: A	Q14: A	Q24: D	Q34: D	Q44: C
Q5: B	Q15: B	Q25: C	Q35: B	Q45: C
Q6: B	Q16: C	Q26: D	Q36: D	Q46: C
Q7: A	Q17: A	Q27: C	Q37: A	Q47: B
Q8: D	Q18: C	Q28: D	Q38: C	Q48: A
Q9: A	Q19: D	Q29: C	Q39: B	Q49: C
Q10: B	Q20: A	Q30: A	Q40: A	Q50: A

Linear Equation

Level 1:

Q1: D	Q21: A	Q41: A	Q61: B	Q81: C
Q2: D	Q22: D	Q42: B	Q62: B	Q82: C
Q3: C	Q23: A	Q43: A	Q63: A	Q83: D
Q4: C	Q24: A	Q44: B	Q64: C	Q84: C
Q5: B	Q25: A	Q45: D	Q65: D	Q85: A
Q6: B	Q26: C	Q46: A	Q66: B	Q86: A
Q7: C	Q27: B	Q47: A	Q67: C	Q87: C
Q8: D	Q28: B	Q48: C	Q68: A	Q88: A
Q9: B	Q29: A	Q49: A	Q69: A	Q89: A
Q10: B	Q30: A	Q50: C	Q70: D	Q90: C
Q11: D	Q31: A	Q51: B	Q71: A	Q91: C
Q12: B	Q32: C	Q52: B	Q72: D	Q92: C
Q13: D	Q33: C	Q53: D	Q73: D	Q93: A
Q14: A	Q34: D	Q54: D	Q74: B	Q94: A
Q15: C	Q35: D	Q55: A	Q75: D	Q95: D
Q16: D	Q36: A	Q56: A	Q76: B	Q96: B
Q17: B	Q37: C	Q57: B	Q77: B	Q97: B
Q18: A	Q38: A	Q58: B	Q78: B	Q98: B
Q19: B	Q39: C	Q59: B	Q79: A	Q99: C
Q20: D	Q40: D	Q60: D	Q80: B	Q100: D

Level 2:

Q1: A	Q11: D	Q21: D	Q31: B	Q41: D
Q2: D	Q12: D	Q22: B	Q32: C	Q42: A
Q3: D	Q13: D	Q23: D	Q33: A	Q43: D
Q4: D	Q14: D	Q24: C	Q34: C	Q44: B
Q5: B	Q15: B	Q25: A	Q35: B	Q45: B
Q6: D	Q16: A	Q26: C	Q36: D	Q46: D
Q7: D	Q17: B	Q27: C	Q37: B	Q47: D
Q8: C	Q18: C	Q28: C	Q38: C	Q48: D
Q9: C	Q19: C	Q29: D	Q39: A	Q49: B
Q10: B	Q20: C	Q30: B	Q40: D	Q50: B

Distance, Speed and Time

Level 1:

Q1: A	Q21: B	Q41: D	Q61: B	Q81: C
Q2: D	Q22: A	Q42: D	Q62: C	Q82: B
Q3: D	Q23: B	Q43: B	Q63: D	Q83: B
Q4: D	Q24: B	Q44: B	Q64: C	Q84: C
Q5: C	Q25: B	Q45: A	Q65: C	Q85: D
Q6: B	Q26: D	Q46: D	Q66: B	Q86: A
Q7: C	Q27: B	Q47: D	Q67: B	Q87: A
Q8: A	Q28: B	Q48: C	Q68: D	Q88: D
Q9: D	Q29: A	Q49: A	Q69: C	Q89: B
Q10: A	Q30: B	Q50: B	Q70: D	Q90: D
Q11: A	Q31: B	Q51: C	Q71: B	Q91: A
Q12: B	Q32: A	Q52: A	Q72: D	Q92: D
Q13: A	Q33: A	Q53: D	Q73: B	Q93: A
Q14: A	Q34: C	Q54: A	Q74: B	Q94: B
Q15: C	Q35: D	Q55: B	Q75: C	Q95: D
Q16: C	Q36: C	Q56: B	Q76: D	Q96: B
Q17: A	Q37: A	Q57: B	Q77: B	Q97: B
Q18: D	Q38: B	Q58: D	Q78: C	Q98: A
Q19: B	Q39: A	Q59: A	Q79: A	Q99: A
Q20: D	Q40: A	Q60: D	Q80: B	Q100: D

Level 2:

Q1: A	Q11: C	Q21: A	Q31: B	Q41: C
Q2: B	Q12: A	Q22: C	Q32: C	Q42: B
Q3: D	Q13: D	Q23: A	Q33: D	Q43: B
Q4: D	Q14: A	Q24: D	Q34: A	Q44: A
Q5: D	Q15: A	Q25: A	Q35: D	Q45: B
Q6: B	Q16: B	Q26: B	Q36: C	Q46: C
Q7: C	Q17: B	Q27: B	Q37: B	Q47: A
Q8: D	Q18: C	Q28: A	Q38: D	Q48: B
Q9: C	Q19: B	Q29: B	Q39: C	Q49: A
Q10: A	Q20: C	Q30: A	Q40: D	Q50: D

Perimeter and Area

Level 1:

Q1: C	Q21: C	Q41: C	Q61: A	Q81: C
Q2: C	Q22: D	Q42: C	Q62: A	Q82: C
Q3: A	Q23: D	Q43: A	Q63: B	Q83: B
Q4: D	Q24: A	Q44: C	Q64: D	Q84: B
Q5: D	Q25: C	Q45: A	Q65: B	Q85: C
Q6: B	Q26: C	Q46: D	Q66: C	Q86: D
Q7: A	Q27: B	Q47: C	Q67: A	Q87: C
Q8: D	Q28: A	Q48: D	Q68: B	Q88: A
Q9: C	Q29: C	Q49: B	Q69: D	Q89: D
Q10: D	Q30: A	Q50: B	Q70: C	Q90: C
Q11: B	Q31: D	Q51: D	Q71: B	Q91: C
Q12: B	Q32: A	Q52: A	Q72: D	Q92: A
Q13: A	Q33: D	Q53: D	Q73: C	Q93: A
Q14: D	Q34: C	Q54: B	Q74: A	Q94: A
Q15: A	Q35: C	Q55: B	Q75: B	Q95: D
Q16: C	Q36: C	Q56: C	Q76: D	Q96: B
Q17: D	Q37: B	Q57: B	Q77: B	Q97: A
Q18: B	Q38: A	Q58: A	Q78: D	Q98: A
Q19: C	Q39: A	Q59: D	Q79: A	Q99: B
Q20: C	Q40: C	Q60: B	Q80: A	Q100: C

Level 2:

Q1: A	Q11: D	Q21: C	Q31: B	Q41: A
Q2: A	Q12: D	Q22: A	Q32: A	Q42: D
Q3: B	Q13: D	Q23: C	Q33: C	Q43: B
Q4: A	Q14: A	Q24: D	Q34: D	Q44: B
Q5: C	Q15: B	Q25: A	Q35: A	Q45: A
Q6: B	Q16: B	Q26: C	Q36: D	Q46: B
Q7: C	Q17: A	Q27: B	Q37: B	Q47: B
Q8: A	Q18: A	Q28: A	Q38: D	Q48: D
Q9: C	Q19: C	Q29: A	Q39: A	Q49: B
Q10: D	Q20: B	Q30: D	Q40: D	Q50: A

Practical Geometry

Level 1:

Q1: D	Q20: C	Q39: C	Q58: A	Q77: A
Q2: B	Q21: B	Q40: B	Q59: B	Q78: D
Q3: D	Q22: B	Q41: C	Q60: D	Q79: B
Q4: A	Q23: B	Q42: A	Q61: B	Q80: D
Q5: A	Q24: D	Q43: C	Q62: D	Q81: C
Q6: C	Q25: D	Q44: D	Q63: A	Q82: C
Q7: C	Q26: B	Q45: A	Q64: B	Q83: C
Q8: B	Q27: C	Q46: D	Q65: B	Q84: A
Q9: C	Q28: A	Q47: B	Q66: D	Q85: D
Q10: D	Q29: B	Q48: A	Q67: C	Q86: D
Q11: C	Q30: D	Q49: D	Q68: C	Q87: C
Q12: A	Q31: C	Q50: D	Q69: D	Q88: C
Q13: D	Q32: C	Q51: A	Q70: D	Q89: D
Q14: D	Q33: B	Q52: A	Q71: A	Q90: B
Q15: A	Q34: C	Q53: B	Q72: B	Q91: D
Q16: D	Q35: B	Q54: D	Q73: B	Q92: D
Q17: D	Q36: C	Q55: B	Q74: B	Q93: D
Q18: A	Q37: B	Q56: A	Q75: B	Q94: D
Q19: C	Q38: A	Q57: C	Q76: C	Q95: A

Q96: C

Q97: A

Q98: B

Q99: B

Q100: D

Level 2:

Q1: B
Q2: A
Q3: A
Q4: C
Q5: D
Q6: A
Q7: B
Q8: A
Q9: A
Q10: D

Q11: D
Q12: B
Q13: B
Q14: D
Q15: A
Q16: A
Q17: A
Q18: C
Q19: D
Q20: D

Q21: B
Q22: A
Q23: C
Q24: C
Q25: D
Q26: D
Q27: A
Q28: A
Q29: D
Q30: B

Q31: B
Q32: B
Q33: C
Q34: B
Q35: D
Q36: B
Q37: C
Q38: C
Q39: B
Q40: B

Q41: D
Q42: C
Q43: A
Q44: C
Q45: C
Q46: C
Q47: A
Q48: B
Q49: B
Q50: A

Angle Properties of Polygons

Level 1:

Q1: A
Q2: A
Q3: A
Q4: A
Q5: D
Q6: C
Q7: A
Q8: A
Q9: D
Q10: A
Q11: D
Q12: A
Q13: A
Q14: C
Q15: B
Q16: D
Q17: C
Q18: C
Q19: A
Q20: A

Q21: A
Q22: A
Q23: B
Q24: B
Q25: B
Q26: A
Q27: D
Q28: C
Q29: D
Q30: B
Q31: B
Q32: A
Q33: B
Q34: D
Q35: B
Q36: D
Q37: C
Q38: A
Q39: C
Q40: C

Q41: D
Q42: B
Q43: D
Q44: A
Q45: D
Q46: D
Q47: A
Q48: C
Q49: A
Q50: C
Q51: D
Q52: A
Q53: B
Q54: D
Q55: B
Q56: C
Q57: B
Q58: D
Q59: A
Q60: D

Q61: B
Q62: D
Q63: C
Q64: D
Q65: A
Q66: C
Q67: D
Q68: A
Q69: C
Q70: A
Q71: B
Q72: D
Q73: C
Q74: D
Q75: C
Q76: C
Q77: B
Q78: D
Q79: D
Q80: C

Q81: C
Q82: C
Q83: B
Q84: D
Q85: C
Q86: D
Q87: B
Q88: B
Q89: C
Q90: C
Q91: C
Q92: C
Q93: A
Q94: D
Q95: C
Q96: D
Q97: B
Q98: A
Q99: C
Q100: B

Level 2:

Q1: D
Q2: D
Q3: C
Q4: A
Q5: C
Q6: D
Q7: C
Q8: D
Q9: C
Q10: B

Q11: D
Q12: A
Q13: C
Q14: D
Q15: C
Q16: C
Q17: C
Q18: B
Q19: C
Q20: A

Q21: B
Q22: C
Q23: C
Q24: A
Q25: C
Q26: D
Q27: A
Q28: A
Q29: C
Q30: C

Q31: D
Q32: A
Q33: A
Q34: D
Q35: B
Q36: A
Q37: A
Q38: D
Q39: C
Q40: B

Q41: A
Q42: C
Q43: D
Q44: D
Q45: A
Q46: A
Q47: D
Q48: B
Q49: C
Q50: D

Transformation

Level 1:

Q1: A
Q2: C
Q3: C
Q4: D
Q5: C
Q6: A
Q7: C
Q8: C
Q9: C
Q10: B
Q11: D
Q12: D
Q13: A
Q14: A
Q15: C
Q16: B

Q17: C
Q18: B
Q19: D
Q20: A
Q21: C
Q22: C
Q23: A
Q24: D
Q25: D
Q26: B
Q27: B
Q28: C
Q29: B
Q30: C
Q31: B
Q32: A

Q33: A
Q34: A
Q35: C
Q36: A
Q37: C
Q38: C
Q39: B
Q40: C
Q41: D
Q42: A
Q43: B
Q44: C
Q45: B
Q46: C
Q47: D
Q48: D

Q49: A
Q50: C
Q51: D
Q52: B
Q53: A
Q54: A
Q55: B
Q56: D
Q57: B
Q58: A
Q59: C
Q60: D
Q61: B
Q62: D
Q63: D
Q64: A

Q65: D
Q66: B
Q67: D
Q68: B
Q69: D
Q70: C
Q71: D
Q72: A
Q73: C
Q74: B
Q75: C
Q76: D
Q77: B
Q78: B
Q79: D
Q80: D

Q81: B	Q85: D	Q89: A	Q93: B	Q97: D
Q82: C	Q86: B	Q90: B	Q94: A	Q98: B
Q83: A	Q87: A	Q91: B	Q95: D	Q99: C
Q84: B	Q88: A	Q92: D	Q96: C	Q100: B

Level 2:

Q1: D	Q11: A	Q21: C	Q31: C	Q41: B
Q2: C	Q12: C	Q22: A	Q32: D	Q42: C
Q3: A	Q13: A	Q23: D	Q33: D	Q43: B
Q4: D	Q14: B	Q24: B	Q34: A	Q44: A
Q5: B	Q15: B	Q25: A	Q35: C	Q45: A
Q6: A	Q16: A	Q26: B	Q36: B	Q46: A
Q7: B	Q17: D	Q27: C	Q37: A	Q47: C
Q8: C	Q18: D	Q28: C	Q38: D	Q48: D
Q9: C	Q19: D	Q29: A	Q39: A	Q49: C
Q10: C	Q20: D	Q30: D	Q40: C	Q50: C

Statistics

Level 1:

Q1: D	Q21: D	Q41: B	Q61: A	Q81: D
Q2: A	Q22: C	Q42: C	Q62: D	Q82: C
Q3: D	Q23: A	Q43: B	Q63: D	Q83: A
Q4: C	Q24: D	Q44: C	Q64: A	Q84: C
Q5: A	Q25: A	Q45: C	Q65: A	Q85: D
Q6: C	Q26: B	Q46: C	Q66: C	Q86: D
Q7: C	Q27: B	Q47: A	Q67: A	Q87: C
Q8: B	Q28: B	Q48: D	Q68: A	Q88: C
Q9: B	Q29: A	Q49: D	Q69: B	Q89: C
Q10: C	Q30: C	Q50: C	Q70: B	Q90: D
Q11: D	Q31: D	Q51: B	Q71: D	Q91: B
Q12: A	Q32: C	Q52: C	Q72: C	Q92: D
Q13: B	Q33: C	Q53: C	Q73: B	Q93: D
Q14: C	Q34: D	Q54: D	Q74: C	Q94: B
Q15: C	Q35: D	Q55: C	Q75: B	Q95: B
Q16: D	Q36: D	Q56: C	Q76: D	Q96: D
Q17: B	Q37: D	Q57: D	Q77: D	Q97: B
Q18: A	Q38: B	Q58: B	Q78: D	Q98: C
Q19: D	Q39: C	Q59: C	Q79: A	Q99: A
Q20: C	Q40: D	Q60: A	Q80: B	Q100: A

Level 2:

Q1: D	Q11: C	Q21: D	Q31: D	Q41: C
Q2: D	Q12: A	Q22: A	Q32: B	Q42: B
Q3: C	Q13: C	Q23: B	Q33: B	Q43: A
Q4: D	Q14: B	Q24: C	Q34: D	Q44: B
Q5: C	Q15: C	Q25: B	Q35: C	Q45: D
Q6: B	Q16: C	Q26: C	Q36: A	Q46: C
Q7: B	Q17: C	Q27: B	Q37: D	Q47: D
Q8: D	Q18: B	Q28: A	Q38: C	Q48: C
Q9: D	Q19: A	Q29: A	Q39: C	Q49: A
Q10: A	Q20: B	Q30: A	Q40: B	Q50: C

Probability

Level 1:

Q1: A	Q14: A	Q27: A	Q40: D	Q53: A
Q2: C	Q15: A	Q28: B	Q41: D	Q54: B
Q3: D	Q16: A	Q29: B	Q42: D	Q55: A
Q4: B	Q17: C	Q30: B	Q43: C	Q56: C
Q5: B	Q18: C	Q31: B	Q44: D	Q57: B
Q6: C	Q19: A	Q32: D	Q45: C	Q58: D
Q7: D	Q20: B	Q33: C	Q46: C	Q59: C
Q8: C	Q21: D	Q34: D	Q47: A	Q60: A
Q9: B	Q22: A	Q35: D	Q48: A	Q61: B
Q10: B	Q23: D	Q36: D	Q49: B	Q62: A
Q11: D	Q24: C	Q37: A	Q50: B	Q63: B
Q12: B	Q25: C	Q38: B	Q51: D	Q64: C
Q13: C	Q26: B	Q39: B	Q52: C	Q65: A

Q66: D	Q73: B	Q80: A	Q87: B	Q94: D
Q67: C	Q74: B	Q81: A	Q88: A	Q95: B
Q68: C	Q75: B	Q82: A	Q89: C	Q96: D
Q69: A	Q76: D	Q83: B	Q90: A	Q97: B
Q70: B	Q77: D	Q84: B	Q91: D	Q98: B
Q71: A	Q78: D	Q85: D	Q92: B	Q99: C
Q72: D	Q79: C	Q86: D	Q93: C	Q100: A

Level 2:

Q1: B	Q11: A	Q21: D	Q31: D	Q41: C
Q2: A	Q12: A	Q22: B	Q32: B	Q42: A
Q3: A	Q13: A	Q23: B	Q33: D	Q43: B
Q4: B	Q14: C	Q24: A	Q34: D	Q44: A
Q5: B	Q15: C	Q25: C	Q35: B	Q45: B
Q6: B	Q16: C	Q26: D	Q36: D	Q46: A
Q7: B	Q17: A	Q27: A	Q37: C	Q47: C
Q8: A	Q18: D	Q28: C	Q38: A	Q48: C
Q9: A	Q19: B	Q29: A	Q39: D	Q49: D
Q10: D	Q20: A	Q30: D	Q40: D	Q50: D