SSC GD Constable Exam: Relationship between Numbers MCQ Set

Instructions:

- This practice set contains 100 multiple-choice questions (MCQs) on Relationship between Numbers, designed for SSC GD preparation.
- Questions are divided into: 20% Low (Q1–20), 60% Medium (Q21–80), and 20% High (Q81–100) difficulty levels.
- Each question carries 2 marks. There is a negative marking of 0.50 marks for each incorrect answer, as per the latest SSC GD exam pattern.
- Questions cover key topics from the SSC GD Mathematics syllabus, including number patterns, ratios, proportions, LCM, HCF, divisibility, and applications.
- Answers are provided with concise explanations for clarity.

Section 1: Low Difficulty - Basic Number Relationships and Ratios (Questions 1–20)

1.	. Which	number	is	twice	15?
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- A) 30
- B) 25
- C) 20
- D) 35

Answer: A

Explanation: Twice 15 means $15 \times 2 = 30$. The number 30 is double 15.

- 2. What is the ratio of 12 to 4?
 - A) 3:1
 - B) 2:1
 - C) 1:3
 - D) 1:2

Answer: A

Explanation: Ratio of 12 to 4 is 12/4 = 3/1 = 3:1. Simplify by dividing both by 4.

3. If a number is increased by 10, it becomes 20. What is the number?

A) 8 B) 10 C) 12 D) 14 Answer: B Explanation: Let the number be x. Then, x + 10 = 20, so x = 20 - 10 = 10.	
 4. Find the HCF of 6 and 12. A) 6 B) 3 C) 12 D) 2 Answer: A Explanation: Factors of 6: 1, 2, 3, 6; factors of 12: 1, 2, 3, 4, 6, 12. HCF is 6. 	
5. What is the LCM of 3 and 5? A) 15 B) 8 C) 10 D) 12 Answer: A Explanation: LCM of 3 and 5 is 3 × 5 = 15, as they have no common factors.	
6. Which number is 3 times 8? A) 21 B) 24 C) 27 D) 30 Answer: B Explanation: Three times 8 means 8 × 3 = 24. The number 24 is triple 8.	
7. What is the ratio of 18 to 6? A) 2:1	

B) 3:1 C) 1:3 D) 1:2 Answer: B Explanation: Ratio of 18 to 6 is 18/6 = 3/1 = 3:1. Simplify by dividing both by 6.
 8. If a number is decreased by 5, it becomes 10. What is the number? A) 13 B) 14 C) 15 D) 16 Answer: C Explanation: Let the number be x. Then, x - 5 = 10, so x = 10 + 5 = 15.
9. Find the HCF of 8 and 16. A) 4 B) 8 C) 16 D) 2 Answer: B Explanation: Factors of 8: 1, 2, 4, 8; factors of 16: 1, 2, 4, 8, 16. HCF is 8.
10. What is the LCM of 4 and 6? A) 12 B) 10 C) 8 D) 24 Answer: A Explanation: LCM of 4 and 6 is 4 × 6 ÷ HCF(4,6) = 24 ÷ 2 = 12. HCF is 2.
11. Which number is half of 24? A) 10 B) 12 C) 14

D) 16
Answer: B
Explanation: Half of 24 means $24 \div 2 = 12$. The number 12 is half of 24.
12. What is the ratio of 15 to 5?
A) 3:1
B) 2:1
C) 1:3
D) 1:2
Answer: A Explanation: Patio of 15 to 5 is 15/5 - 3/1 - 3:1. Simplify by dividing both
Explanation: Ratio of 15 to 5 is $15/5 = 3/1 = 3:1$. Simplify by dividing both by 5.
13. If a number is doubled, it becomes 16. What is the number?
A) 6 B) 8
C) 10
D) 12
Answer: B
Explanation: Let the number be x. Then, $2x = 16$, so $x = 16 \div 2 = 8$.
14. Find the HCF of 9 and 18.
A) 9
B) 6
C) 3
D) 18
Answer: A
Explanation: Factors of 9: 1, 3, 9; factors of 18: 1, 2, 3, 6, 9, 18. HCF is 9.
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15. What is the LCM of 2 and 8?
A) 8
B) 16
C) 4
D) 12

Answer: A
Explanation: LCM of 2 and 8 is $2 \times 8 \div HCF(2,8) = 16 \div 2 = 8$. HCF is 2.
16. Which number is 4 times 5? A) 15 B) 20 C) 25 D) 30 Answer: B Explanation: Four times 5 means 5 × 4 = 20. The number 20 is quadruple 5.
17. What is the ratio of 20 to 10? A) 1:2 B) 2:1 C) 1:3 D) 3:1 Answer: B Explanation: Ratio of 20 to 10 is 20/10 = 2/1 = 2:1. Simplify by dividing
both by 10.
 18. If a number is increased by 7, it becomes 15. What is the number? A) 6 B) 7 C) 8 D) 9 Answer: C Explanation: Let the number be x. Then, x + 7 = 15, so x = 15 - 7 = 8.
19. Find the HCF of 10 and 20. A) 5 B) 10 C) 20 D) 2 Answer: B

Explanation: Factors of 10: 1, 2, 5, 10; factors of 20: 1, 2, 4, 5, 10, 20. HCF is 10. 20. What is the LCM of 5 and 7? A) 35 B) 12 C) 25 D) 14 Answer: A Explanation: LCM of 5 and 7 is $5 \times 7 = 35$, as they have no common factors. Section 2: Medium Difficulty - Patterns, Proportions, and Applications (**Questions 21–80**) 21. Find the next number in the sequence: 2, 4, 6, 8, ? A) 10 B) 12 C) 14 D) 16 Answer: A Explanation: The sequence increases by 2 each time: 2 + 2 = 4, 4 + 2 =6, 6 + 2 = 8. Next: 8 + 2 = 10. 22. If 3:5 = x:10, what is x? A) 6 B) 7 C) 8 D) 9 Answer: A Explanation: Proportion: 3/5 = x/10. Cross-multiply: $3 \times 10 = 5 \times x$, so 30 = 5x, $x = 30 \div 5 = 6$.

23. Find the HCF of 24 and 36.

A) 6

B) 12 C) 18 D) 24 Answer: B Explanation: Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24; factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36. HCF is 12.
24. What is the LCM of 6 and 9? A) 18 B) 12 C) 15 D) 27 Answer: A Explanation: LCM of 6 and 9 is 6 × 9 ÷ HCF(6,9) = 54 ÷ 3 = 18.
25. A shop sells pens at 3 for ₹12. How much for 9 pens? A) 36 B) 40 C) 44 D) 48 Answer: A Explanation: Cost per pen: 12 ÷ 3 = 4. For 9 pens: 9 × 4 = 36.
26. Find the next number in the sequence: 5, 10, 15, 20, ? A) 25 B) 30 C) 35 D) 40 Answer: A Explanation: The sequence increases by 5 each time: 5 + 5 = 10, 10 + 5 = 15, etc. Next: 20 + 5 = 25.
27. If 4:7 = 12:x, what is x? A) 19 B) 20

C) 21 D) 22 Answer: C Explanation: Proportion: $4/7 = 12/x$. Cross-multiply: $4x = 7 \times 12$, so $4x = 84 \div 4 = 21$.
28. Find the HCF of 15 and 25.
A) 5
B) 10
C) 15
D) 25
Answer: A
Explanation: Factors of 15: 1, 3, 5, 15; factors of 25: 1, 5, 25. HCF is 5
29. What is the LCM of 8 and 12?
A) 24
B) 20
C) 16
D) 36
Answer: A
Explanation: LCM of 8 and 12 is $8 \times 12 \div HCF(8,12) = 96 \div 4 = 24$.
30. A number when divided by 3 gives 9. What is the number?
A) 24
B) 27
C) 30
D) 33
Answer: B
Explanation: Number = $9 \times 3 = 27$. Check: $27 \div 3 = 9$.
31. Find the next number in the sequence: 3, 6, 12, 24, ?
A) 36
B) 48
C) 60
D) 72

Answer: B

Explanation: Each number doubles: $3 \times 2 = 6$, $6 \times 2 = 12$, $12 \times 2 = 24$.

Next: $24 \times 2 = 48$.

- 32. If 5:2 = x:8, what is x?
 - A) 18
 - B) 20
 - C) 22
 - D) 24

Answer: B

Explanation: Proportion: 5/2 = x/8. Cross-multiply: $5 \times 8 = 2 \times x$, so 40 = 2x, $x = 40 \div 2 = 20$.

- 33. Find the HCF of 18 and 27.
 - A) 6
 - B) 9
 - C) 12
 - D) 15

Answer: B

Explanation: Factors of 18: 1, 2, 3, 6, 9, 18; factors of 27: 1, 3, 9, 27. HCF is 9.

- 34. What is the LCM of 10 and 15?
 - A) 25
 - B) 30
 - C) 45
 - D) 60

Answer: B

Explanation: LCM of 10 and 15 is $10 \times 15 \div HCF(10,15) = 150 \div 5 = 30$.

- 35. A shop sells books at 2 for ₹30. How much for 6 books?
 - A) 90
 - B) 80
 - C) 70
 - D) 60

Explanation: Cost per book: $30 \div 2 = 15$. For 6 books: $6 \times 15 = 90$.

- 36. Find the next number in the sequence: 7, 14, 21, 28, ?
 - A) 35
 - B) 40
 - C) 45
 - D) 50

Answer: A

Explanation: The sequence increases by 7 each time: 7 + 7 = 14, 14 + 7 = 21, etc. Next: 28 + 7 = 35.

- 37. If 6:9 = x:18, what is x?
 - A) 12
 - B) 14
 - C) 16
 - D) 18

Answer: A

Explanation: Proportion: 6/9 = x/18. Simplify: 2/3 = x/18. Cross-multiply: $2 \times 18 = 3x$, so 36 = 3x, $x = 36 \div 3 = 12$.

- 38. Find the HCF of 20 and 30.
 - A) 10
 - B) 5
 - C) 15
 - D) 20

Answer: A

Explanation: Factors of 20: 1, 2, 4, 5, 10, 20; factors of 30: 1, 2, 3, 5, 6, 10, 15, 30. HCF is 10.

- 39. What is the LCM of 9 and 12?
 - A) 36
 - B) 24
 - C) 18
 - D) 48

Explanation: LCM of 9 and 12 is $9 \times 12 \div HCF(9,12) = 108 \div 3 = 36$.

HCF is 3.

- 40. A number when multiplied by 4 gives 28. What is the number?
 - A) 6
 - B) 7
 - C) 8
 - D) 9

Answer: B

Explanation: Number = $28 \div 4 = 7$. Check: $7 \times 4 = 28$.

- 41. Find the next number in the sequence: 4, 8, 16, 32, ?
 - A) 48
 - B) 64
 - C) 80
 - D) 96

Answer: B

Explanation: Each number doubles: $4 \times 2 = 8$, $8 \times 2 = 16$, $16 \times 2 = 32$.

Next: $32 \times 2 = 64$.

- 42. If 2:3 = 8:x, what is x?
 - A) 12
 - B) 14
 - C) 16
 - D) 18

Answer: A

Explanation: Proportion: 2/3 = 8/x. Cross-multiply: $2x = 3 \times 8$, so 2x = 24, $x = 24 \div 2 = 12$.

- 43. Find the HCF of 12 and 18.
 - A) 6
 - B) 9
 - C) 12
 - D) 3

Answer: A Explanation: Factors of 12: 1, 2, 3, 4, 6, 12; factors of 18: 1, 2, 3, 6, 9, 18. HCF is 6. 44. What is the LCM of 7 and 14? A) 14 B) 21 C) 28 D) 35 Answer: A Explanation: LCM of 7 and 14 is $7 \times 14 \div HCF(7,14) = 98 \div 7 = 14$. HCF is 7. 45. A shop sells pencils at 5 for ₹10. How much for 15 pencils? A) 30 B) 25 C) 20 D) 15 Answer: A Explanation: Cost per pencil: $10 \div 5 = 2$. For 15 pencils: $15 \times 2 = 30$. 46. Find the next number in the sequence: 10, 20, 30, 40, ? A) 50 B) 55 C) 60 D) 65 Answer: A Explanation: The sequence increases by 10 each time: 10 + 10 = 20, 20 + 10 = 30, etc. Next: 40 + 10 = 50. 47. If 3:4 = x:12, what is x? A) 8 B) 9 C) 10 D) 11

Answer: B

Explanation: Proportion: 3/4 = x/12. Cross-multiply: $3 \times 12 = 4x$, so 36 = 4x, $x = 36 \div 4 = 9$.

- 48. Find the HCF of 16 and 24.
 - A) 8
 - B) 6
 - C) 4
 - D) 12

Answer: A

Explanation: Factors of 16: 1, 2, 4, 8, 16; factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. HCF is 8.

- 49. What is the LCM of 6 and 8?
 - A) 24
 - B) 12
 - C) 18
 - D) 36

Answer: A

Explanation: LCM of 6 and 8 is $6 \times 8 \div HCF(6,8) = 48 \div 2 = 24$.

- 50. A number when divided by 5 gives 7. What is the number?
 - A) 30
 - B) 35
 - C) 40
 - D) 45

Answer: B

Explanation: Number = $7 \times 5 = 35$. Check: $35 \div 5 = 7$.

- 51. Find the next number in the sequence: 2, 5, 8, 11, ?
 - A) 14
 - B) 15
 - C) 16
 - D) 17

Answer: A

Explanation: The sequence increases by 3 each time: 2 + 3 = 5, 5 + 3 = 58, etc. Next: 11 + 3 = 14. 52. If 5:6 = 15:x, what is x? A) 18 B) 20 C) 22 D) 24 Answer: A Explanation: Proportion: 5/6 = 15/x. Cross-multiply: $5x = 6 \times 15$, so $5x = 6 \times 15$ 90, $x = 90 \div 5 = 18$. 53. Find the HCF of 21 and 28. A) 7 B) 14 C) 21 D) 28 Answer: A Explanation: Factors of 21: 1, 3, 7, 21; factors of 28: 1, 2, 4, 7, 14, 28. HCF is 7. 54. What is the LCM of 12 and 15? A) 60 B) 45 C) 30 D) 75 Answer: A Explanation: LCM of 12 and 15 is $12 \times 15 \div HCF(12,15) = 180 \div 3 = 60$. 55. A shop sells apples at 4 for ₹20. How much for 12 apples? A) 60 B) 50 C) 40 D) 30 Answer: A

Explanation: Cost per apple: $20 \div 4 = 5$. For 12 apples: $12 \times 5 = 60$. 56. Find the next number in the sequence: 9, 18, 27, 36, ? A) 45 B) 50 C) 55 D) 60 Answer: A Explanation: The sequence increases by 9 each time: 9 + 9 = 18, 18 + 9= 27, etc. Next: 36 + 9 = 45. 57. If 7:8 = x:24, what is x? A) 20 B) 21 C) 22 D) 23 Answer: B Explanation: Proportion: 7/8 = x/24. Cross-multiply: $7 \times 24 = 8x$, so 168 = x/24. 8x, $x = 168 \div 8 = 21$. 58. Find the HCF of 14 and 35. A) 7 B) 14 C) 5 D) 10 Answer: A Explanation: Factors of 14: 1, 2, 7, 14; factors of 35: 1, 5, 7, 35. HCF is 7. 59. What is the LCM of 10 and 12? A) 60 B) 24 C) 36 D) 48 Answer: A

Explanation: LCM of 10 and 12 is $10 \times 12 \div HCF(10,12) = 120 \div 2 = 60$.

- 60. A number when multiplied by 3 gives 21. What is the number?
 - A) 6
 - B) 7
 - C) 8
 - D) 9

Answer: B

Explanation: Number = $21 \div 3 = 7$. Check: $7 \times 3 = 21$.

- 61. Find the next number in the sequence: 6, 12, 18, 24, ?
 - A) 30
 - B) 36
 - C) 42
 - D) 48

Answer: A

Explanation: The sequence increases by 6 each time: 6 + 6 = 12, 12 + 6 = 18, etc. Next: 24 + 6 = 30.

- 62. If 4:5 = 16:x, what is x?
 - A) 20
 - B) 22
 - C) 24
 - D) 26

Answer: A

Explanation: Proportion: 4/5 = 16/x. Cross-multiply: $4x = 5 \times 16$, so 4x = 80, $x = 80 \div 4 = 20$.

- 63. Find the HCF of 27 and 36.
 - A) 9
 - B) 12
 - C) 18
 - D) 6

Answer: A

Explanation: Factors of 27: 1, 3, 9, 27; factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36. HCF is 9. 64. What is the LCM of 15 and 20? A) 60 B) 45 C) 30 D) 75 Answer: A Explanation: LCM of 15 and 20 is $15 \times 20 \div HCF(15,20) = 300 \div 5 = 60$. 65. A shop sells oranges at 3 for ₹15. How much for 9 oranges? A) 45 B) 40 C) 35 D) 30 Answer: A Explanation: Cost per orange: $15 \div 3 = 5$. For 9 oranges: $9 \times 5 = 45$. 66. Find the next number in the sequence: 8, 16, 24, 32, ? A) 40 B) 44 C) 48 D) 52 Answer: A Explanation: The sequence increases by 8 each time: 8 + 8 = 16, 16 + 8= 24, etc. Next: 32 + 8 = 40. 67. If 5:7 = x:14, what is x? A) 10 B) 11 C) 12 D) 13 Answer: A

Explanation: Proportion: 5/7 = x/14. Cross-multiply: $5 \times 14 = 7x$, so 70 = x/14. 7x, $x = 70 \div 7 = 10$. 68. Find the HCF of 24 and 32. A) 8 B) 6 C) 4 D) 12 Answer: A Explanation: Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24; factors of 32: 1, 2, 4, 8, 16, 32. HCF is 8. 69. What is the LCM of 9 and 15? A) 45 B) 30 C) 60 D) 75 Answer: A Explanation: LCM of 9 and 15 is $9 \times 15 \div HCF(9,15) = 135 \div 3 = 45$. 70. A number when divided by 4 gives 8. What is the number? A) 28 B) 32 C) 36 D) 40 Answer: B Explanation: Number = $8 \times 4 = 32$. Check: $32 \div 4 = 8$. 71. Find the next number in the sequence: 5, 10, 20, 40, ? A) 60 B) 80 C) 100 D) 120 Answer: B

Explanation: Each number doubles: $5 \times 2 = 10$, $10 \times 2 = 20$, $20 \times 2 = 40$. Next: $40 \times 2 = 80$. 72. If 3:8 = 12:x, what is x? A) 28 B) 30 C) 32 D) 34 Answer: C Explanation: Proportion: 3/8 = 12/x. Cross-multiply: $3x = 8 \times 12$, so 3x = 12/x. 96, $x = 96 \div 3 = 32$. 73. Find the HCF of 30 and 45. A) 15 B) 10 C) 5 D) 20 Answer: A Explanation: Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30; factors of 45: 1, 3, 5, 9, 15, 45. HCF is 15. 74. What is the LCM of 8 and 10? A) 40 B) 20 C) 30 D) 50 Answer: A Explanation: LCM of 8 and 10 is $8 \times 10 \div HCF(8,10) = 80 \div 2 = 40$. 75. A shop sells bananas at 6 for ₹18. How much for 12 bananas? A) 36 B) 30 C) 24 D) 18 Answer: A

Explanation: Cost per banana: $18 \div 6 = 3$. For 12 bananas: $12 \times 3 = 36$.

76. Find the next number in the sequence: 4, 7, 10, 13, ?

- A) 16
- B) 17
- C) 18
- D) 19

Answer: A

Explanation: The sequence increases by 3 each time: 4 + 3 = 7, 7 + 3 = 10, etc. Next: 13 + 3 = 16.

77. If 2:5 = 10:x, what is x?

- A) 25
- B) 20
- C) 15
- D) 10

Answer: A

Explanation: Proportion: 2/5 = 10/x. Cross-multiply: $2x = 5 \times 10$, so 2x = 50, $x = 50 \div 2 = 25$.

78. Find the HCF of 18 and 24.

- A) 6
- B) 12
- C) 8
- D) 4

Answer: A

Explanation: Factors of 18: 1, 2, 3, 6, 9, 18; factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. HCF is 6.

79. What is the LCM of 12 and 16?

- A) 48
- B) 36
- C) 24
- D) 60

Answer: A

Explanation: LCM of	12 and 16 is	12 × 16 ÷ HC	CF(12,16) = 1	$192 \div 4 = 48.$

- 80. A number when multiplied by 5 gives 35. What is the number?
 - A) 6
 - B) 7
 - C) 8
 - D) 9

Answer: B

Explanation: Number = $35 \div 5 = 7$. Check: $7 \times 5 = 35$.

Section 3: High Difficulty - Complex Patterns and Multi-Step Problems (Questions 81–100)

- 81. Two bells ring at intervals of 6 and 8 seconds. After how many seconds will they ring together?
 - A) 24
 - B) 12
 - C) 18
 - D) 30

Answer: A

Explanation: Find LCM of 6 and 8: $6 \times 8 \div HCF(6,8) = 48 \div 2 = 24$. They ring together after 24 seconds.

- 82. A number when multiplied by 3 and increased by 12 gives 33. What is the number?
 - A) 7
 - B) 8
 - C) 9
 - D) 10

Answer: A

Explanation: Let x be the number. Then, 3x + 12 = 33, so 3x = 33 - 12 = 21, $x = 21 \div 3 = 7$.

- 83. Find the next number in the sequence: 2, 6, 12, 20, ?
 - A) 30

- B) 32
- C) 34
- D) 36

Explanation: Differences increase by 2: 6 - 2 = 4, 12 - 6 = 6, 20 - 12 = 8. Next difference: 10. So, 20 + 10 = 30.

- 84. If the ratio of two numbers is 3:4 and their sum is 28, what is the smaller number?
 - A) 12
 - B) 14
 - C) 16
 - D) 18

Answer: A

Explanation: Let numbers be 3x and 4x. Then, 3x + 4x = 28, so 7x = 28, x = 4. Smaller number: $3 \times 4 = 12$.

- 85. Find the HCF of 36 and 48.
 - A) 12
 - B) 18
 - C) 24
 - D) 6

Answer: A

Explanation: Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36; factors of 48: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48. HCF is 12.

- 86. What is the LCM of 18 and 24?
 - A) 72
 - B) 48
 - C) 36
 - D) 60

Answer: A

Explanation: LCM of 18 and 24 is $18 \times 24 \div HCF(18,24) = 432 \div 6 = 72$.

87. A shop sells 3 kg of rice for ₹45 and 5 kg of wheat for ₹60. What is the cost of 9 kg of rice and 10 kg of wheat? A) 195 B) 200 C) 205 D) 210 Answer: A Explanation: Rice per kg: 45 ÷ 3 = 15; 9 kg rice: 9 x 15 = 135. Wheat per kg: 60 ÷ 5 = 12; 10 kg wheat: 10 x 12 = 120. Total: 135 + 120 = 195.
88. Find the next number in the sequence: 3, 9, 18, 30, ? A) 45 B) 50 C) 52 D) 54 Answer: A Explanation: Differences increase by 3: 9 - 3 = 6, 18 - 9 = 9, 30 - 18 = 12. Next difference: 15. So, 30 + 15 = 45.
89. If the ratio of two numbers is 5:7 and their difference is 8, what is the larger number? A) 26 B) 28 C) 24 D) 32 Answer: B Explanation: Let numbers be 5x and 7x. Then, 7x - 5x = 8, so 2x = 8, x = 4. Larger number: 7 × 4 = 28.
90. Two bells ring at intervals of 12 and 15 seconds. After how many seconds will they ring together? A) 60 B) 45 C) 30 D) 75

Explanation: Find LCM of 12 and 15: $12 \times 15 \div HCF(12,15) = 180 \div 3 = 60$. They ring together after 60 seconds.

- 91. A number when multiplied by 4 and decreased by 10 gives 22. What is the number?
 - A) 11
 - B) 9
 - C) 10
 - D) 8

Answer: D

Explanation: Let x be the number. Then, 4x - 10 = 22, so 4x = 32, $x = 32 \div 4 = 8$.

- 92. Find the next number in the sequence: 1, 4, 10, 22, ?
 - A) 46
 - B) 48
 - C) 50
 - D) 52

Answer: A

Explanation: Differences increase by doubling: 4 - 1 = 3, 10 - 4 = 6, 22 - 10 = 12. Next difference: 24. So, 22 + 24 = 46.

- 93. If the ratio of two numbers is 2:3 and their sum is 25, what is the larger number?
 - A) 13
 - B) 14
 - C) 15
 - D) 12

Answer: C

Explanation: Let numbers be 2x and 3x. Then, 2x + 3x = 25, so 5x = 25, x = 5. Larger number: $3 \times 5 = 15$.

- 94. Find the HCF of 42 and 56.
 - A) 14

- B) 7
- C) 28
- D) 21

Explanation: Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42; factors of 56: 1, 2, 4, 7, 8, 14, 28, 56. HCF is 14.

- 95. What is the LCM of 20 and 25?
 - A) 110
 - B) 75
 - C) 50
 - D) 100

Answer: D

Explanation: LCM of 20 and 25 is $20 \times 25 \div HCF(20,25) = 500 \div 5 = 100$.

- 96. A shop sells 4 kg of sugar for ₹80 and 3 kg of rice for ₹60. What is the cost of 12 kg of sugar and 9 kg of rice?
 - A) 422
 - B) 420
 - C) 402
 - D) 270

Answer: B

Explanation: Sugar per kg: $80 \div 4 = 20$; 12 kg sugar: $12 \times 20 = 240$. Rice per kg: $60 \div 3 = 20$; 9 kg rice: $9 \times 20 = 180$. Total: 240 + 180 = 420

- 97. Find the next number in the sequence: 2, 5, 11, 23, ?
 - A) 47
 - B) 48
 - C) 49
 - D) 50

Answer: A

Explanation: Differences double: 5 - 2 = 3, 11 - 5 = 6, 23 - 11 = 12. Next difference: 24. So, 23 + 24 = 47.

98. If the ratio of two numbers is 4:5 and their difference is 10, what is the smaller number?

- A) 40
- B) 30
- C) 20
- D) 10

Answer: A

Explanation: Let numbers be 4x and 5x. Then, 5x - 4x = 10, so x = 10. Smaller number: $4 \times 10 = 40$.

99. Two bells ring at intervals of 9 and 12 seconds. After how many seconds will they ring together?

- A) 36
- B) 24
- C) 18
- D) 48

Answer: A

Explanation: Find LCM of 9 and 12: $9 \times 12 \div HCF(9,12) = 108 \div 3 = 36$. They ring together after 36 seconds.

100. A number when multiplied by 5 and increased by 15 gives 50. What is the number?

- A) 7
- B) 8
- C) 9
- D) 10

Answer: A

Explanation: Let x be the number. Then, 5x + 15 = 50, so 5x = 50 - 15 = 35, $x = 35 \div 5 = 7$.

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