


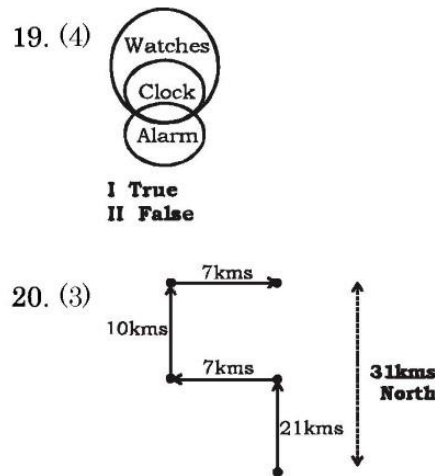
## ANSWER SET - 08

1. (2) 2. (2) 3. (3) 4. (2) 5. (2)  
 6. (2) 7. (2) 8. (1) 9. (2) 10. (2)  
 11. (3) 12. (4) 13. (3) 14. (2) 15. (4)  
 16. (3) 17. (2) 18. (4) 19. (4) 20. (3)  
 21. (1) 22. (1) 23. (1) 24. (1) 25. (2)  
 26. (1) 27. (3) 28. (4) 29. (3) 30. (3)  
 31. (2) 32. (2) 33. (3) 34. (3) 35. (4)  
 36. (2) 37. (3) 38. (2) 39. (3) 40. (3)  
 41. (3) 42. (3) 43. (3) 44. (3) 45. (2)  
 46. (3) 47. (2) 48. (2) 49. (1) 50. (3)  
 51. (2) 52. (3) 53. (1) 54. (1) 55. (1)  
 56. (3) 57. (1) 58. (2) 59. (2) 60. (1)  
 61. (4) 62. (2) 63. (3) 64. (1) 65. (3)  
 66. (2) 67. (1) 68. (1) 69. (3) 70. (2)  
 71. (1) 72. (4) 73. (4) 74. (1) 75. (4)  
 76. (3) 77. (4) 78. (2) 79. (1) 80. (4)  
 81. (4) 82. (3) 83. (4) 84. (3) 85. (4)  
 86. (1) 87. (2) 88. (3) 89. (4) 90. (3)  
 91. (4) 92. (2) 93. (1) 94. (1) 95. (2)  
 96. (1) 97. (4) 98. (2) 99. (3) 100. (3)

## EXPLANATION - 08

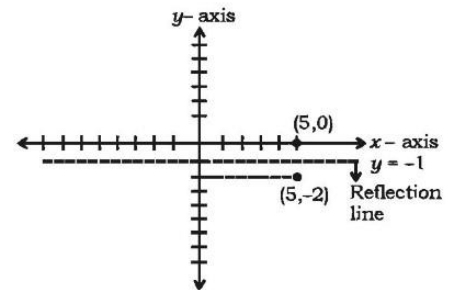
1. (2) Female gender of Bull is Cow.  
 Similarly, Female gender of Lion is Lioness.
2. (2)  $\begin{matrix} \text{STU} & & \text{ZAB} \\ & \nearrow +7 & \nearrow \\ & \text{HIJ} & & \text{OPQ} \\ & & \nearrow +7 & \nearrow \end{matrix}$   
 Similarly,  $\begin{matrix} \text{HIJ} & & \text{OPQ} \\ & \nearrow +7 & \nearrow \\ & \text{STU} & & \text{ZAB} \\ & & \nearrow +7 & \nearrow \end{matrix}$
3. (3)  $99 \Rightarrow (9 + 2) \times 10 - 9 = 101$   
 $90 \Rightarrow (9 + 2) \times 10 - 0 = 110$
4. (2) Except Brinjal, all others have roots as eatable parts.
5. (2)  $\begin{matrix} \text{E} & \text{D} & \text{G} & & \text{I} & \text{H} & \text{L} \\ & \nearrow -1 & \nearrow +3 & & \nearrow -1 & \nearrow +4 & \\ & \text{I} & \text{H} & \text{K} & & \text{Q} & \text{P} & \text{S} \\ & \nearrow -1 & \nearrow +3 & & \nearrow -1 & \nearrow +3 & \end{matrix}$
6. (2) Except 8000, all others are square numbers.
7. (2) Cable  $\rightarrow$  Cannal  $\rightarrow$  Capricon  
 $\rightarrow$  Clamp  $\rightarrow$  Cloud.
8. (1) ATQ,  
 Difference between both dates  
 $= 28 + 30 + 31 + 31 + 30 + 38$   
 $= 25 \text{ weeks} + 6 \text{ days}$   
 Hence, Required days = Sunday  
 $+ 6 \text{ days} = \text{Saturday}$
9. (2) Total weight of all combinations will be  
 190, 170, 130, 160, 200, 290, 120,  
 100 and 220 kgs.  
 Hence, option (3) i.e. 310 kg is correct answer  
 or  
 Total weight of all boxes = 290 kgs.  
 From option (3) i.e. 310 kgs is correct answer.
10. (2) MINES

11. (3)  $\begin{matrix} 21 & 26 & 33 & 42 & 53 & 66 \\ & \nearrow +5 & \nearrow +7 & \nearrow +9 & \nearrow +11 & \nearrow +13 \\ & \text{ABC} & \text{DEF} & \text{HIJ} & \text{MNO} & \\ & & \nearrow +3 & \nearrow +4 & \nearrow +5 & \end{matrix}$
12. (4)  $\begin{matrix} -7.5 & 15 & -30 & 60 & -120 & 240 \\ & \nearrow \times 4 & \nearrow \times 4 & \nearrow \times 4 & \nearrow \times 4 & \\ & \text{CROWNED} & \text{APMULCB} & & & \\ & & \nearrow -2 & & & \end{matrix}$   
 Similarly,  $\begin{matrix} \text{CAMPUS} & & \text{AYKNSQ} \\ & \nearrow -2 & \nearrow \end{matrix}$
15. (4)  $642 \times 6 \div 25 + 4$   
 Changing the signs, as per given details,  
 $642 \div 6 - 25 \times 4 = 107 - 100 = 7$
16. (3)  $2 + 9 - 6 - 4 = 1$   
 $8 + 7 - 2 - 5 = 8$   
 $8 + 9 - 6 - 2 = 9$
17. (2)  $217 - 24 = 193$   
 $113 - 23 = 90$   
 $78 - 29 = 49$
18. (4)
19. (4) 
- I True  
 II False



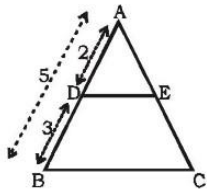
21. (1) 22. (1) 23. (1) 24. (1)  
 25. (2)
52. (3) ATQ,  
 $\begin{matrix} \text{A} \rightarrow 10 & & 3 \\ \text{B} \rightarrow 60 & \rightarrow & 60 & \leftarrow & 1 \\ \text{A+B+C} \rightarrow 10 & & 6 & \leftarrow & 6 \end{matrix}$   
 Hence, Required days  
 $= \frac{60}{6-3-1} = 30 \text{ days.}$
54. (1) ATQ,  
 Required S.P  
 $= 450 \times \frac{(100+90)}{100} \times \frac{(100-30)}{100}$   
 $= ₹ 598.5$
56. (3) ATQ,  
 $= \frac{12x+83}{13} = x+3$   
 $\Rightarrow x = 44$   
 Hence, Required average =  $44 + 3 = 47$

58. (2) ATQ,  
 Required amount  
 $= \frac{1000}{(100+150)} \times 100$   
 $= ₹ 400$
59. (2) ATQ,  
 $\frac{60-X}{7} + \frac{X}{5} = 10$   
 $\Rightarrow x = 25 \text{ kms}$   
 Hence, Required distance  
 $= 25 \text{ kms}$
61. (4) ATQ,  
 $\frac{1}{3} \left( \frac{12x}{5} - \frac{1}{2} \right) + \frac{6}{5} = \frac{7}{6}$   
 $\Rightarrow 24x + 31 = 35$   
 $\Rightarrow x = \frac{1}{6}$
64. (1) ATQ,  
 $a + 7d - a - 2d = 49 - 19$   
 $\Rightarrow 5d = 30$   
 $\Rightarrow d = 6$  and  
 $\Rightarrow a = 7$   
 Hence,  $T_{13} = a + 12d$   
 $= 7 + 12 \times 6 = 79$
65. (3) ATQ,



- Hence, Required point = (5,0)
66. (2) ATQ,  
 Coordinate of C  
 $= [(-1 \times 3 - (-3 + 3), 4 \times 3 - (-1 + 5))]$   
 $\left[ x = \frac{x_1 + x_2 + x_3}{3}, y = \frac{y_1 + y_2 + y_3}{3} \right]$   
 $= (-3, 8)$
67. (1) ATQ,  
 Slope of Line  $(ax + 3y = 6)$   
 $= \frac{-a}{3}$  ..... (i)  
 but slope of line  $(ax + 3y = 6)$   
 $= \frac{-2}{3}$  ..... (ii)  
 from equation (i) and (ii),  
 $\frac{-a}{3} = \frac{-2}{3}$   
 $\Rightarrow a = 2$

68. (1) ATQ,



$$\text{Then, } \frac{\text{area of } \triangle ADE}{\text{area of } \triangle ABC} = \frac{2^2}{(2+3)^2}$$

$$\Rightarrow \text{area of } \triangle ADE = \frac{4}{25} \times 150 = 24 \text{ cm}^2$$

Hence, area of BCED

$$\begin{aligned} &= \text{area of } \triangle ABC \\ &- \text{area of } \triangle ADE \\ &= 150 - 24 = 126 \text{ cm}^2 \end{aligned}$$

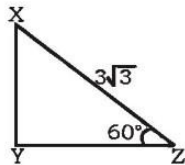
69. (3) ATQ,

$$\sin 30^\circ + 2 \cos 30^\circ$$

$$= \frac{1}{2} + \frac{2\sqrt{2}}{3}$$

$$= \frac{1+2\sqrt{3}}{2} \text{ units}$$

70. (2) ATQ,



As, we know the ratio when horizontal angle is  $60^\circ$

Perpendicular : Base : Hypotenuse  
3 : 1 : 2

$$\text{Hence, length of } YZ = \frac{3\sqrt{3}}{2} \text{ cm}$$

71. (1) ATQ,

$$\operatorname{cosec} A = \frac{\sec A}{\sqrt{\sec^2 A - 1}}$$

$$= \frac{\frac{13}{12}}{\sqrt{\left(\frac{13}{12}\right)^2 - 1}} = \frac{13}{12} \times \frac{12}{5} = \frac{13}{5}$$

72. (4)

73. (4) ATQ,

Required percentage

$$= \frac{4000 - 3000}{4000} \times 100 = 25\%$$

74. (1) ATQ,

$$\begin{aligned} \text{Total sum} &= 6000 + 2000 + 1000 \\ &+ 4000 = 13000 \end{aligned}$$

75. (4) ATQ,

$$\text{Total Sum} = 5000 + 1300 + 3000$$

$$= 2100$$

Then, Required number

$$= \frac{21000}{100} \times (100 - 10) = 18900$$

82. (3) Add 'the' before 'other'. 'From one end to the other' is the correct phrase.

84. (3) To express possession, we cannot use apostrophe for non living things. Hence replace 'van's door' with 'doors of the van'.

86. (1) 'Rational person' means one who can think rationally.