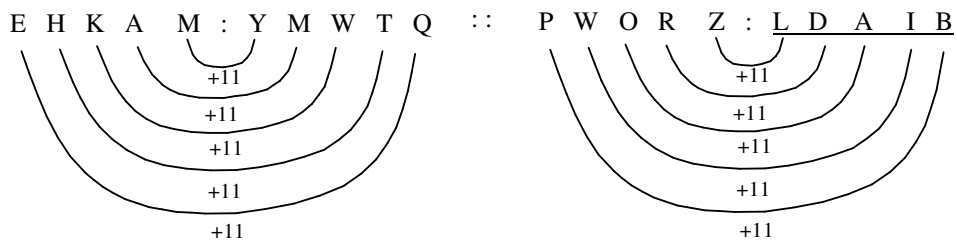


6. (4)

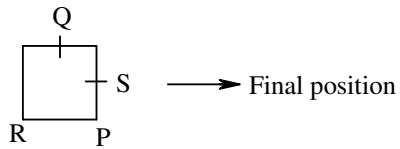


7. (1)

8. (3)

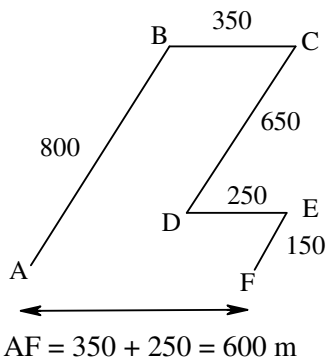
9. (2)

10. (4)



Q is to the North West of S

11. (3)



12. (2)

13. (4)

14. (3)

15. (3)

16. (2)

17. (2)

18. (4)

19. (1)

20. (3)

21. (1)

Let the boys present age be x

Fathers age $6x$

Grand-father's age $13x$

$$13x + 6 = 7(x + 6)$$

$$= 7x + 42$$

$$13x - 7x = 42 - 6$$

$$6x = 36$$

$\therefore x = 6$

Present age of father = $6x = 6 \times 6 = 36$ years

22. (4)

Let present age of son and father be $5x$ and $21x$ respectively.

$$\frac{5x - 4}{21x - 4} = \frac{3}{19}$$

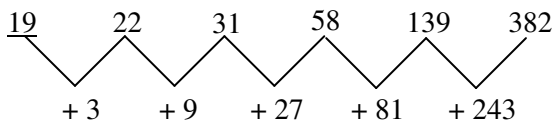
$$95x - 76 = 63x - 12$$

$$95x - 63x = -12 + 76$$

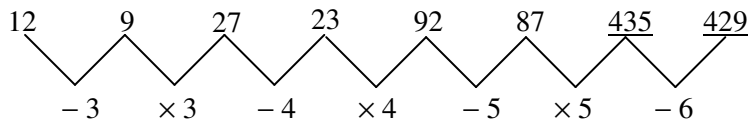
$$32x = 64 \Rightarrow x = 2$$

Present age of son = $5x = 10$ years

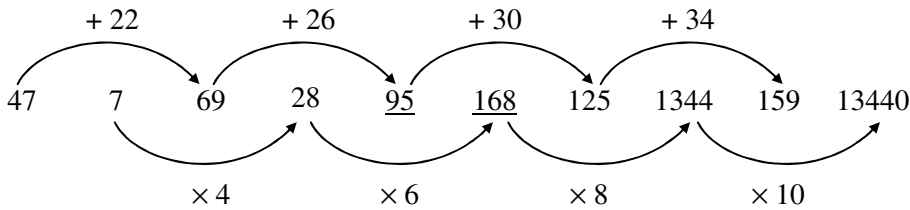
23. (3)



24. (4)

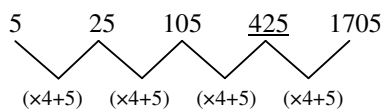


25. (2)

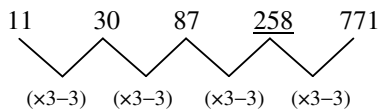


26. (1)

Numerator



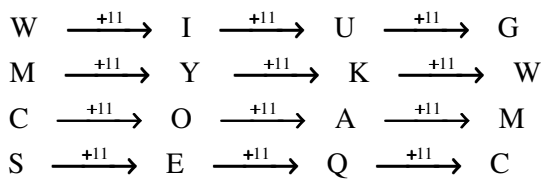
Denominator



27. (4)

$$m \underline{n} / m \underline{m} \underline{n} \underline{n} / m \underline{m} \underline{m} \underline{n} \underline{n} \underline{n}$$

28. (3)



29. (4)
 30. (3)
 31. (2)

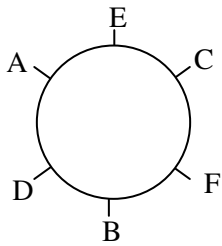
Inside inner circle is a new figure, other figures shifting positions in a pattern.

32. (1)

Figures shifting by one position anticlockwise

Dot (circle) inside shifting +1, +2, +3, anticlockwise.

33. (3)



F is between B and C

34. (2)

$T > U > R > S = P > Q$

T is the heaviest

35. (1)

$$210 \neq 6^3 + 12$$

$$135 = 5^3 + 10$$

$$72 = 4^3 + 8$$

$$33 = 3^3 + 6$$

36. (4)

Except 323, rest of them are prime numbers.

37. (2)

Rest of them follow the rule $(n, n^2 + n)$

38. (1)

Rest of them follow the rule $(n, n^3 + n^2)$

39. (4)

Rest all have only 5 vowels

40. (2)

No vowel in RHYTHM.

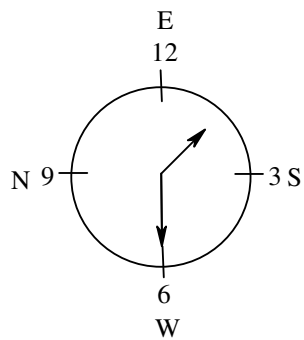
41. (4)

RELIC – 7 4 3 6 5

ANTHEM – 2 9 0 1 4 8

MERCANTILE – 8 4 7 5 2 9 0 6 3 4

42. (2)



1:30

+ 3:00 hours

= 4:30

43. (4)

$$15 \div 3 \times 5 + 16 = 41$$

$$5 \times 5 + 16 = 41$$

$$25 + 16 = 41$$

$$41 = 41$$

44. (3)

$$13 \times 4 + 5 > 12 \div 6$$

$$52 + 5 > 2$$

$$57 > 2$$

45. (2)

$$80 - 20 = 60 \times 3 + 80$$

$$80 = 60 - 20 \times 3 + 80$$

$$80 = 60 - 60 + 80$$

$$80 = 80$$

46. (4)

$$(20 + 3) \times 6 + 8 - 32 = 76$$

$$(20 \times 3) + 6 \times 8 - 32 = 76$$

$$60 + 6 \times 8 - 32 = 76$$

$$60 + 48 - 32 = 76$$

$$76 = 76$$

47. (3)

$$72 \text{ A } 24 \text{ V } 8 < 48 \wedge 16 \vee 32$$

$$72 \div 24 \times 8 < 48 + 16 - 32$$

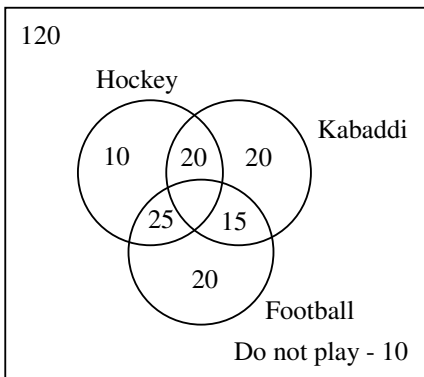
$$3 \times 8 < 64 - 32$$

$$24 < 32$$

48. (4)

49. (3)

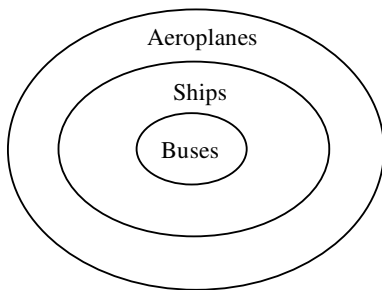
Solution for question 50 – 51



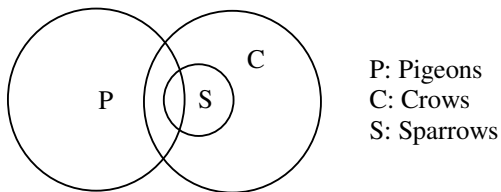
50. (2)

51. (2)

52. (3)



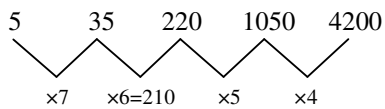
53. (1)



54. (3)

55. (4)

56. (2)



$\therefore 35 \times 6 = 210$

220 is the odd man

57. (3)

256	343	64	49	16	7	<u>2</u>	1
↓	↓	↓	↓	↓	↓	↓	↓
4^4	7^3	4^3	7^2	4^2	7^1	<u>4^1</u>	7^0

58. (1)

$$\begin{aligned} Y &\xrightarrow{-2} V \xrightarrow{-2} S \xrightarrow{-2} P \xrightarrow{-2} M \\ W &\xrightarrow{-2} T \xrightarrow{-2} Q \xrightarrow{-2} N \xrightarrow{-2} K \\ T &\xrightarrow{-2} Q \xrightarrow{-2} N \xrightarrow{-2} L(K) \xrightarrow{-2} H \\ P &\xrightarrow{-2} M \xrightarrow{-2} J \xrightarrow{-2} I(G) \xrightarrow{-2} D \\ Z &\xrightarrow{-2} W \xrightarrow{-2} T \xrightarrow{-2} Q \xrightarrow{-2} N \end{aligned}$$

59. (2)

$$x - y = 6 \quad \dots (1)$$

$$\frac{x^2 + y^2}{2} = 234 \quad \dots (2)$$

$$x^2 + y^2 = 468$$

$$(x - y)^2 = x^2 + y^2 - 2xy$$

$$(6)^2 = 468 - 2xy$$

$$2xy = 468 - 36$$

$$2xy = 432$$

$$\Rightarrow xy = 216$$

$$(x + y)^2 = x^2 + y^2 + 2xy$$

$$(x + y)^2 = 468 + 2(216)$$

$$(x + y)^2 = 900$$

$$x + y = 30$$

$$\frac{x + y}{2} = 15$$

60. (4)

$$\left(\frac{10}{2}\right) + (12 \times 2) = 5 + 24 = 29$$

$$\left(\frac{22}{2}\right) + (8 \times 2) = 11 + 16 = 27$$

$$\left(\frac{32}{2}\right) + (14 \times 2) = 16 + 28 = 44$$

61. (1)

$$(128 + 132) = 260 \rightarrow \frac{260}{2} = 130 \rightarrow 130 + 7 = 137$$

$$(14 + 18) = 32 \rightarrow \frac{32}{2} = 16 \rightarrow 16 + 7 = 23$$

$$(76 + 58) = 134 \rightarrow \frac{134}{2} = 67 \rightarrow 67 + 7 = 74$$

62. (3)

$$(87 + 37) = 124 = (93 + 31)$$

$$(19 + 2) = 21 = (13 + 8)$$

$$(42 + 36) = 78 = (63 + x)$$

$$63 + x = 78$$

$$x = 78 - 63$$

$$x = 15$$

63. (2)

$$(9 \times 3) + (6 \times 2) = 39$$

$$(12 \times 3) + (13 \times 2) = 62$$

$$(5 \times 3) + (14 \times 2) = 43$$

64. (4)

By observation

65. (3)

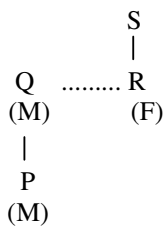
By observation

66. (2)

By observation

67. None of the above

68. (2)



69. (4)

$$(12 \times 11) - (9 \times 13) = 132 - 117 = 15; \quad 15^2 = 225$$

$$(10 \times 13) - (14 \times 8) = 130 - 112 = 18; \quad 18^2 = 324$$

$$(11 \times 15) - (12 \times 16) = -27; \quad (-27)^2 = 729$$

70. (3)

$$5^3 + 6^2 + 7 = 168$$

$$6^3 + 7^2 + 8 = 273$$

$$7^3 + 8^2 + 9 = 416$$

OR

$$5^3 + (6 \times 7) + 1 = 168$$

$$6^3 + (7 \times 8) + 1 = 273$$

$$7^3 + (8 \times 9) + 1 = 416$$

71. (2)

$$(10 \div 2)^2 + (4 \div 2)^2 + (8 \div 2)^2 + (6 \div 2)^2 = 54$$

$$(14 \div 2)^2 + (12 \div 2)^2 + (6 \div 2)^2 + (8 \div 2)^2 = 110$$

$$(16 \div 2)^2 + (10 \div 2)^2 + (14 \div 2)^2 + (8 \div 2)^2 = 154$$

72. (1)

$$(84 \div 12)^2 + (72 \div 18)^2 = 49 + 16 = 65$$

$$(128 \div 16)^2 + (70 \div 14)^2 = 64 + 25 = 89$$

$$(168 \div 14)^2 + (96 \div 12)^2 = 144 + 64 = 208$$

73. (3)

74. (4)

75. (1)

$$8 + 1 = 9; 1 + 4 + 4 = 9; 2 + 2 + 5 = 9$$

$$1 + 6 + 9 = 16; 4 + 8 + 4 = 16; 5 + 2 + 9 = 16$$

76. (2)

$$35 \times 6 = 210$$

$$35 \times 9 = 315 \rightarrow 315, 210, 35$$

$$32 \times 6 = 192$$

$$32 \times 9 = 288 \rightarrow 288, 192, 32$$

77. (4)

1st January - Wednesday

$$2 + 1 + 3 + 2 + 3 + 2 + 3 + 3 + 5 = 25 = 3 \text{ odd days}$$

Wednesday + 3 odd days = Saturday

78. (2)

$$\text{HAT}; \quad \text{H} = 8, \quad \text{A} = 1, \quad \text{T} = 20 \quad \Rightarrow 8 + 1 + 20 = 29$$

$$\text{JAR}; \quad \text{J} = 10, \quad \text{A} = 1, \quad \text{R} = 18 \quad \Rightarrow 10 + 1 + 18 = 29$$

$$\text{WE}; \quad \text{W} = 23, \quad \text{E} = 5 \quad \Rightarrow 23 + 5 = 28$$

$$\text{IS}; \quad \text{I} = 9, \quad \text{S} = 19 \quad \Rightarrow 9 + 19 = 28$$

$$\text{JUG}; \quad \text{J} = 10, \quad \text{U} = 21, \quad \text{G} = 7 \quad \Rightarrow 10 + 21 + 7 = 38$$

$$\text{MET}; \quad \text{M} = 13, \quad \text{E} = 5, \quad \text{T} = 20 \quad \Rightarrow 13 + 5 + 20 = 38$$

79. (3)

80. (4)

81. (1) and (2)

By observation

82. (4)

Opposite faces are (F, A) (E, C) (B, D)

83. (4)

(3, 1) are opposite faces.

84. (3)

By observation

85. (4)

z c b c y c a n c r c b c u c g e m e a n e y x e d e b v e e p

Number of c's = 7

Number of e's = 7

86. (2)

Number 6, 9, 10, 7 are enclosed in only two figures.

87. (3)

By observation

88. (1)

By observation

89. (1)

By observation

90. (3)

By observation

Solution for questions 91 – 92

S	U	N	C	A	P	M	E	G	O	L	D	T	R
l	b	y	m	k	d	a	x	p	c	f	s	i	n

91. (4)

MASTER

a k l i x n

92. (2)

SOLUTE

l c f b i x

93. (1)

DOCUMENT

s c m b a x y i

94. (4)

By observation

95. (2)

By observation

96. (3)

K X 27

97. (4)

U d 6

98. (2)

3 9 E

99. (3)

100. (1)

* * *