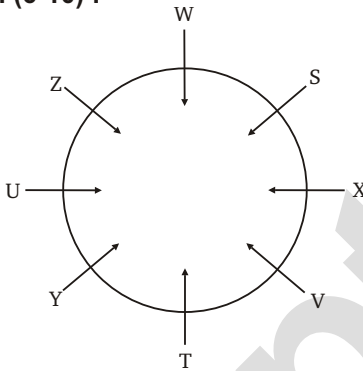


## RRB MOCK-3 SOLUTION

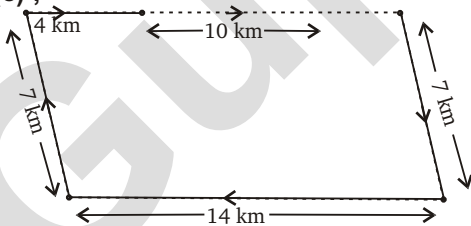
ANS. (1-5) :

- (e) Statements :**  $L > K$   $U > P$   $R > T$   
**Conclusions :** I.  $K > R$  True  
II.  $L > R$  True
- (c) Statements :**  $S > M$   $R = I = H$   
**Conclusions :** I.  $M = I$   
II.  $M > I$
- (b) Statements :**  $D > H$   $T < S$   
 $I > H$   $N > S$   
**Conclusions :** I.  $N > S$  False  
II.  $I > R$  True
- (b) Statements :**  $I > O$   $P > Y > W$   
**Conclusions :** I.  $Y > I$  False  
II.  $O > W$  True
- (e) Statements :**  $A > B > C$   $F > E$   
**Conclusions :** I.  $A > Z$  True  
II.  $F > E$  True

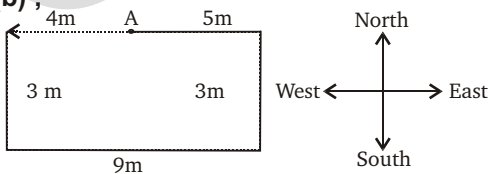
Ans. (6-10) :



6. (e) ; 7. (d) ; 8. (d) ; 9. (b) ; 10. (d) ;  
11. (c) ;



12. (b) ;



13. (e) ;

14. (d) ;

15. (b) ;

16. (e) ;

17. (d) ;

Ans. (18-22) :

18. (d) 19. (c) 20. (d) 21. (b) 22. (d) 23. (b)

24. (b) ;

Number formed on adding 17 in each number,  
749 534 310 332 655

25. (e) ;

Arranging all the numbers in descending order from left to right,

293 315 517 638 732

Required sum =  $5 + 1 + 7 = 13$

26. (c) ;

Arranging all digits of the given numbers in ascending order,

237 157 239 135 368

Highest number = 368

Required product =  $3 \times 8 = 24$

27. (e) ;

According to question,

28. (d) ;

$X5L@UC\%MPF6FN3*K\&ZG$   $QRYJ7\#TR8$   
 $W^{\wedge}BV$

29. (a) ;

$XL@UC\%MPFN*K\&ZG$   $QYJ\#TRW^{\wedge}BV$

30. (b) ;

$VB8$   $T\#Y$   $Q$   $\&$   $*36$   $m\%@$

31. (c); Q 4

32. (d);

Ans. (33-35):

33. (e); 34. (c); 35. (a);

Ans. (36-37):

$$H > F > D > E > G$$

$$179 \text{ cm} \quad 162 \text{ cm}$$

36. (d);

$$\begin{aligned} \text{Height of E} &= 162 + 18 + 144 \\ \text{Required difference} &= 179 - 144 \\ &= 35 \text{ cm} \end{aligned}$$

37. (b);

38. (e);

As,

39. (a); 1 3 6 7 4 8 2 5

Descending order from left to right,  
8 7 6 5 4 3 2 1

Required unchanged digit = 6, 4, 2

40. (b);

41. (a);

$$\begin{aligned} A : B &= 7 : 9 \\ B : C &= 18 : 11 \\ A : B : C &= 7 : 18 : 9 \quad 18 : 9 : 11 \\ &= 126 : 162 : 99 \\ &= 14 : 18 : 11 \\ \text{C's share of profit} &= \frac{11}{43} \times 15050 \\ &= \text{Rs. } 3,850/- \end{aligned}$$

42. (b);

43. (a);

44. (d);

45. (b);

46. (b);

47. (a); Let the Principal be Rs.  $x$

According to question,

$$5632 + x + 1 \frac{20}{100} x$$

$$5632 + x \frac{36}{25} + 1$$

$$x \frac{5632 + 25}{11}$$

$$x \text{ Rs. } 12,800/-$$

$$\begin{aligned} \text{Simple interest} &= \frac{12800 \times 12 \times 3}{100} \\ &= \text{Rs. } 4,608/- \end{aligned}$$

48. (b);

$$A : B : C = 10400 : 12 : 14300 : 12 : 9100 : 8$$

$$1248 : 1716 : 728$$

$$312 : 429 : 182$$

$$\begin{aligned} \text{C's share of profit} &= \frac{11360 \times 182}{(312 + 429 + 182)} \\ &= \text{Rs. } 2,240/- \end{aligned}$$

$$\text{Rs. } 2,240 /$$

49. (c);

An year ago, let the population of village

$$Q = x$$

Then, the present population of village

$$P = 2x$$

According to question,

$$3528 + x = \frac{120}{100} \times \frac{120}{100}$$

$$x = 2450$$

The present population of village

$$P = 2 \times 2450$$

$$= 4900$$

50. (b);

Let the first number be  $x$ .

$$\text{Second number} = \frac{5}{18}x$$

According to question,

$$x + \frac{5}{18}x = 506$$

$$\frac{23}{18}x = 506$$

$$x = 396$$

Required difference

$$\frac{4}{9} \times 396 - \frac{2}{11} \times 110$$

$$= 176 - 20$$

$$= 156$$

51. (d);

For Set-A

$$x + x + 2x + 4x + x + 6x + x + 8$$

$$= 185$$

$$5x + 20 = 185$$

$$5x = 165$$

$$x = 33$$

Set-A = 33, 35, 37, 39, 41

The smallest number of Set-B = 41 + 13 = 54

For Set-B,

$$\text{Required average} = \frac{54 + 56 + 58 + 60}{4} = 57$$

52. (e);

Let the time be  $t$  hours.

$$\text{Total distance} = \text{Speed} \times \text{Time}$$

$$\begin{array}{r} 684 \quad (34.5) \quad 41.5) \quad t \\ t \quad 9 \text{ hours} \end{array}$$

53. (e) ;

Area of circular lawn

$$\begin{array}{r} 154 m^2 \\ r^2 \quad 154 \\ r^2 \quad \frac{154 \quad 7}{22} \\ r \quad 7 \text{ m} \end{array}$$

Area of circular lawn including be  $4x$  and the breadth of rectangle be  $3x$  metre.Area of rectangle Length  $\times$  Breadth

$$\begin{array}{r} 1728 \quad 4x \quad 3x \\ 144 \quad x^2 \\ x \quad 12 \text{ m} \end{array}$$

Now, Length 48 m  
Breadth 36 m

Perimeter of rectangle = 2 (Length + Breadth)

$$\begin{array}{r} 2 (48 \quad 36) \\ 168 \text{ m} \end{array}$$

55. (d) ;

Let the cost price of a chair be Rs.  $x$ .

According to question,

$$\begin{array}{r} \frac{8x}{100} \quad \frac{120}{100} \quad \frac{6x}{100} \quad \frac{110}{100} \quad \frac{14x}{100} \quad \frac{112}{100} \quad 442 \\ 960x \quad 660x \quad 1568x \quad 44200 \\ \quad \quad \quad 52x \quad 44200 \\ \quad \quad \quad x \quad \text{Rs. } 850/- \end{array}$$

56. (e) ;

Let the monthly salary be Rs.  $x$ .

According to question,

$$\begin{array}{r} x \quad \frac{50}{100} \quad \frac{58}{100} \quad 12325 \\ x \quad \text{Rs. } 42,500 / \end{array}$$

Sushant's annual salary = 42500 12  
Rs. 5, 10, 000 /

57. (d) ;

Required percentage increase

$$\begin{array}{r} \frac{195 \quad 120}{120} \quad 100 \\ \frac{75}{120} \quad 100 \\ 62.5\% \end{array}$$

58. (e)

Required difference

$$\begin{array}{r} (169 \quad 205) \quad (121 \quad 147) \\ 374 \quad 268 \\ 106 \end{array}$$

59. (a) ;

Required ratio

$$\begin{array}{r} (189 \quad 189) : (129 \quad 177) \\ 378 : 306 \\ 21 : 17 \end{array}$$

60. (c) ;

The average number of members in book clubs

$$\begin{array}{r} \text{M, N and Q} \quad \frac{133 \quad 164 \quad 234}{3} \\ \frac{531}{3} \quad 177 \end{array}$$

61. (b) ;

The total number of male members in book clubs

$$\begin{array}{r} \text{M, N and O together} = (113 \quad 129 \quad 178) \quad \frac{45}{100} \\ 420 \quad \frac{45}{100} \quad 189 \end{array}$$

62. (e) ;

$$\begin{array}{r} 7^2 \quad 3^2 \quad ?^2 \quad 135 \\ 49 \quad 9 \quad ?^2 \quad 135 \\ 441 \quad 135 \quad ?^2 \\ 576 \quad ?^2 \\ ? \quad \sqrt{576} \quad 24 \end{array}$$

63. (c) ;

$$\begin{array}{r} \frac{1}{13} \quad \sqrt{2704} \quad 84 \quad ? \\ \frac{1}{13} \quad 52 \quad 84 \quad ? \\ ? \quad 84 \quad 4 \\ ? \quad 80 \end{array}$$

64. (a) ;

$$\begin{array}{r} 9120076 \quad 878.42 \quad 1671345 \quad 368 \quad ? \\ ? \quad 368 \quad 9120076 \quad 878.42 \quad 167135 \\ ? \quad 248.9224 \end{array}$$

65. (b) ;

$$\begin{array}{r} 16 \frac{2}{7} \quad 15 \frac{1}{4} \quad 18 \frac{1}{2} \quad ? \\ 16 \quad 15 \quad 18 \quad \frac{2}{7} \quad \frac{1}{4} \quad \frac{1}{2} \quad ? \\ 49 \quad \frac{8 \quad 7 \quad 14}{28} \quad ? \\ 49 \frac{29}{28} \quad ? \\ 50 \frac{1}{28} \quad ? \end{array}$$

66. (c) ;

$$\begin{array}{r} (25)^3 \quad (4)^3 \quad 800^2 \quad (?)^2 \\ 15625 \quad 64 \quad 64000 \quad (?)^2 \\ 1000000 \quad 640000 \quad (?)^2 \\ 360000 \quad (?)^2 \\ ? \quad 600 \end{array}$$

67. (b) ;

$$\begin{array}{r} 16\% \text{ of } 450\% \text{ of } 250 \quad 4.8 \\ \frac{16}{100} \quad 450 \quad \frac{?}{100} \quad 250 \quad 4.8 \\ 72 \quad \frac{?}{2} \quad 5 \quad 4.8 \end{array}$$

$$72 \frac{2}{5} ? 48$$

$$72 \frac{2}{5} \frac{1}{48} ?$$

$$? 6$$

68. (b) ;

$$? \frac{1786 \ 24}{1211.75}$$

$$3537$$

$$36$$

69. (d) ;

$$\frac{2}{9} \ 1\frac{3}{4} \ 1\frac{5}{8} ?$$

$$\frac{2}{9} \ \frac{7}{4} \ \frac{13}{8} ?$$

$$\frac{2}{9} \ \frac{14}{8} \ \frac{13}{8} ?$$

$$\frac{2}{9} \ \frac{27}{8} ?$$

$$? \ \frac{3}{4}$$

70. (a) ;

$$\frac{17 \ 4 \ 4^2 \ 2}{90/5 \ 12} ?$$

$$\frac{68 \ 32}{90} ?$$

$$\frac{90}{5} \ 12$$

$$\frac{10}{216} ?$$

$$? \ \frac{25}{54}$$

71. (a) ;

$$\sqrt{?} \ \sqrt{121} \ \sqrt{1521}$$

$$\sqrt{?} \ 39 \ 11$$

$$\sqrt{?} \ 50$$

$$? \ (50)^2 \ 2500$$

72. (b) ;

$$1.05\% \text{ of } 2500 + 2.5\% \text{ of } 440 = ?$$

$$\frac{105}{100} \ 2500 \ \frac{25}{100} \ 440 ?$$

$$26.25 \ 11 ?$$

$$? \ 37.25$$

74. (e) ;

$$? \ \frac{0.729 \ 0.027}{0.729 \ 0.027}$$

$$\frac{0.702}{0.756}$$

$$\frac{13}{14}$$

75. (e) ;

$$\frac{4\sqrt{5} \ 5\sqrt{3}}{\sqrt{15}} ? 6$$

$$\frac{4\sqrt{5} \ 5\sqrt{3}}{\sqrt{5} \ \sqrt{3}} ? 6$$

$$20 ? 6$$

$$? 26$$

76. (a) ;

$$\frac{5}{9} \ 315 \ \frac{3}{7} \ 445 ?$$

$$5 \ 35 \ 3 \ 65 ?$$

$$175 \ 195 ?$$

$$? \ 370$$

77. (c) ;

Let the first number  $x$ Second number  $y$ 

According to question,

$$\begin{array}{r} x \ y \ 1508 \\ 25x \ 40y \\ \hline 100 \ 100 \\ 5x \ 8y \\ x \ \frac{8y}{5} \end{array}$$

...(i)

From equation (i),

$$\begin{array}{r} \frac{8y}{5} \ y \ 1508 \\ 13y \ 1508 \ 5 \\ y \ 116 \ 5 \\ y \ 580 \\ x \ 580 \ \frac{8}{5} \ 928 \end{array}$$

The smaller number among the two

580

78. (d) ;

Mathew's overall percentage

$$\frac{42 \ 51 \ 58 \ 35 \ 48}{5 \ 60} \ 100$$

$$\frac{234}{300} \ 100 \ 78\%$$

79. (b) ;

Fare for one child  $\frac{114}{6}$  Rs. 19/-Fare for 4 adults and 5 children  
(114 4 19 5)  
Rs. 551/-

80. (c) ;

Speed of truck  $\frac{368}{8}$ 46 km/h  
Required time  $\frac{368 \ 16}{46 \ 18}$   
 $\frac{384}{64}$  6 hours