

**RPF MOCK TEST – 3 (SOLUTION)**

51. (C) The minimum number of Bananas  
= L.C.M of (6, 8, 10, 12, 15, 16) + 4  
= 24 + 4  $\Rightarrow$  244
52. (B) Per copy cost price for the customer of  
45 magazines =  $\frac{7}{10} \times 90 = ₹ 63$   
Per copy cost price for the buyer of 26  
magazine =  $\frac{3}{4} \times 90 = ₹ 67.50$   
 $\therefore$  Required diff. = 67.50 – 63 = ₹ 4.50
53. (A) Area of walls =  $2(l + b) \times h$   
=  $2(8 + 6) \times 3 = 84 \text{ m}^2$   
Area of two windows and a door  
=  $2\left(1\frac{1}{2} \times 1\right) + \left(2 \times 1\frac{1}{2}\right) = 6 \text{ m}^2$   
 $\therefore$  Area to be covered =  $84 - 6 = 78 \text{ m}^2$   
 $\therefore$  Area of paper = Area to be covered = 78  
 $\Rightarrow$  (length  $\times$  breadth) of paper = 78  
 $\Rightarrow$  length of paper =  $\frac{78}{50} \times 100 \text{ m}$   
= 156 m  
 $\therefore$  Required cost =  $\frac{156 \times 25}{100} = ₹ 39$
54. (B) Area of large cube =  $6(5)^2$   
= 150 (unit)  
Area of cuboid =  $2(1 \times 1 + 1 + 125 + 125 \times 1)$   
= 502 sq.units  
 $\therefore$  Percentage increase in surface area  
=  $\frac{502 - 150}{150} \times 100 = 234\frac{2}{3}\%$
55. (A) Let the fraction be =  $\frac{x}{y}$   
ATQ,  
 $\frac{x \times 140}{2y \times 100} = \frac{7}{16}$   
 $\therefore$  Original fraction =  $\frac{5}{8}$
56. (A) Let the downstream and upstream speed  
be  $3x$  and  $5x$ .  
Speed of the current =  $3\frac{3}{4}$  km/hr  
A.T.Q,  
 $\Rightarrow \frac{5x - 3x}{2} = \frac{15}{4}$  km/hr
- $\Rightarrow x = \frac{15}{4}$  km/hr  
 $\therefore$  Speed of the boat in still water  
=  $\frac{5x + 3x}{2} = 4x$   
=  $\frac{4 \times 15}{4}$  km/hr = 15 km/hr
57. (D) Let the number of students =  $x$   
A.T.Q.,  
 $\frac{x}{2} - 5 = \frac{x}{3} - 2$   
 $\Rightarrow \frac{x}{2} - \frac{x}{3} = 3$   
 $\Rightarrow \frac{3x - 2x}{6} = 3$   
 $\Rightarrow x = 18$   
So, the number of students = 18
58. (C) Let total  
A.T.Q.,  
Mark =  $x$   
 $\frac{x \times 30}{100} + 96 = \frac{x \times 45}{100} \times 24$   
 $\Rightarrow \frac{15x}{100} = 120$   
 $x = 800$   
Total marks = 800  
Passing marks =  $240 + 96 = 336$   
 $\therefore$  Required percentage % =  $\frac{336}{800} \times 100$   
 $\Rightarrow 42\%$
59. (C) The minute hand complete one  
revolution in 60 minute.  
 $\therefore$  In 50 minute it will cover  $\frac{50}{60} = \frac{5}{6}$   
z of the revolution.  
 $\therefore$  1 revolution =  $2\pi$  radian.  
 $\therefore \frac{5}{6}$  revolution =  $2\pi \times \frac{5}{6} = \frac{5\pi}{3}$  radian  
 $\therefore$  Distance moved by tip =  $3 \times \frac{5\pi}{3}$  cm  
=  $5\pi$  cm  
=  $5 \times \frac{22}{7}$  cm = 15.71 cm

60.(C) Let sum = ₹x  
A.T.Q.,

$$x - 4400 = \frac{x \times 5 \times 100}{9 \times 100}$$

$$\Rightarrow 9x - 39600 = 59$$

$$\Rightarrow x = 9900$$

61.(B) ATQ.,

$$\text{Total number of male} = \frac{32600 \times 28}{41}$$

$$= 22400$$

$$\text{Total number of female} = 10400$$

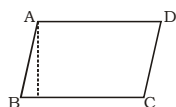
$$\text{Total number married male} = \frac{22400 \times 100}{700}$$

$$= 3200$$

$$\therefore \text{Required percentage} = \frac{3200}{10400} \times 100$$

$$= 30 \frac{10}{13} \%$$

62.(B) Sides are in ratio 5 : 4



Let the sides are 5x and 4x units

$\therefore$  parallelogram's area = greater side  $\times$  altitude

$$\Rightarrow 1000 = 5x \times 20 \Rightarrow x = 10$$

similarly parallelogram's area = smaller side  $\times$  its altitude

$$\Rightarrow 1000 = 4x \times \text{its altitude}$$

$$\Rightarrow 1000 = 4 \times 10 \times \text{it's altitude}$$

$$\therefore \text{altitude} = 25 \text{ units}$$

63. (D) Let x litres from each vessel are mixed

$\therefore$  Total water in third vessel

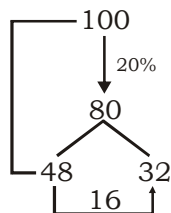
$$= \frac{3x}{7} + \frac{5x}{8} = \frac{59x}{56}$$

Total milk in third vessel

$$= \frac{4x}{7} + \frac{3x}{8} = \frac{53x}{56}$$

$$\therefore \text{Required ratio} = \frac{59x}{56} : \frac{53x}{56} = 59 : 53$$

64. (D)



$$\therefore 16 \text{ unit} \rightarrow 1900 - 300$$

$$\Rightarrow 1 \text{ unit} \rightarrow 100$$

$$\text{then, } 32 \text{ UNITS} \rightarrow 32 \times 100 = 3200$$

65.(A) Let the original number is x

$\therefore$  answer obtained by student =  $x \times 7.2 = 7.2x$

but correct answer =  $0.72x$

$$\Rightarrow 7.2x - 0.72x = 2592 \Rightarrow 6.48x = 2592$$

$$\Rightarrow x = \frac{2592}{6.48} = 400$$

$\therefore$  The original number is 400

66.(C) The time taken by A in 1 round =  $\frac{35}{4}$  hrs

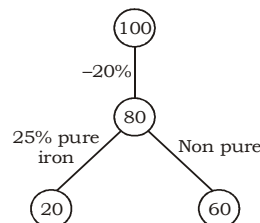
The time taken by B in 1 round =  $\frac{35}{5}$  hrs

$$\therefore \text{L.C.M of } \frac{35}{4} \text{ and } \frac{35}{5} = 35$$

$\therefore$  They will meet earliest again after 35 hours.

67. (B) Let the total quantity of hematite mined = 100 kg.

ATQ,



$$\therefore 20 \text{ units} = 80,000 \text{ kg}$$

$$\Rightarrow 1 \text{ unit} = 4,000 \text{ kg}$$

$$\therefore \text{Total hematite} = 100 \times 4000 = 4,00,000 \text{ kg}$$

68. (B) Here, first divisor (175) is a multiple of second divisor (25).

$\therefore$  Required remainder = Remainder obtained on dividing 132 by 25 = 7

69. (D) Required average weight

$$\frac{(50 \times 6 + 51 \times 2 + 55 \times 2)}{10} = \frac{300 + 102 + 110}{10}$$

$$= \frac{512}{10} = 51.2 \text{ kg}$$

70. (B)  $675 = 5 \times 5 \times 3 \times 3 \times 3$

$\therefore$  Required number = 5

71. (B) Discount =  $300 - 274.50 = ₹ 25.50$

$$\therefore \text{Discount \%} = \frac{25.50}{300} \times 100 = 8.5\%$$

72. (A) Let the price of table be t and chair be c.

$$4t + 5c = 1000 \quad \dots(i)$$

$$4 \times \left( t \times \frac{110}{100} \right) + 5 \times \left( c \times \frac{120}{100} \right) - (4t + 5c) = 120$$

$$\frac{44t}{10} - 4t + \frac{30c}{5} - 5c = 120$$

$$\frac{4t}{10} + c = 120$$

$$\Rightarrow 4t + 10c = 1200 \quad \dots(ii)$$

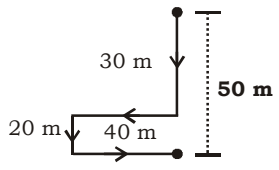
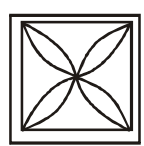
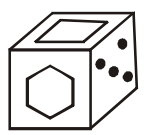

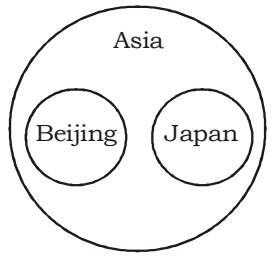
$$\Rightarrow 4t + 5c = 1000 \quad \dots(i)$$


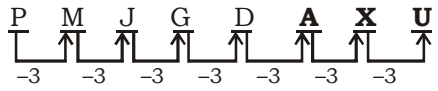
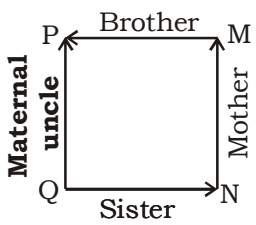
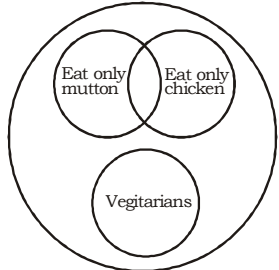
$$\begin{array}{r} - \\ - \\ \hline 5c = 200 \\ \Rightarrow c = ₹ 40 \end{array}$$

$$\therefore t = ₹ 200$$

$$\text{Cost of 1 table} = ₹ 200$$



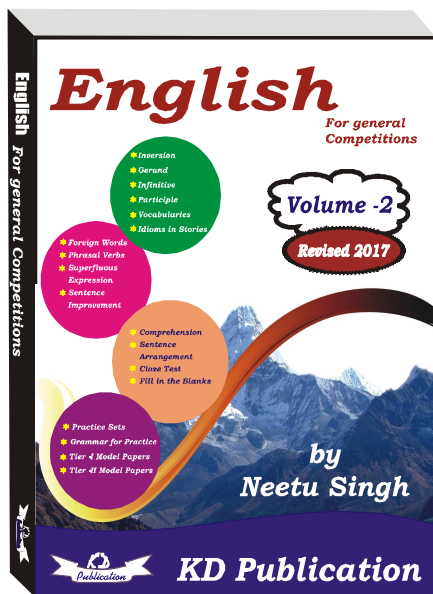
94. (A) Except **Ounce**, all others are the currency of different nation. While Ounce is the unit of weight.
95. (C) Except **29 - 84**, in digits of all others sum of digits of first number is equal to sum of digits of second number.
96. (B) As,  
 $(7 + 3) \times 2 + 1 = 21$   
 and,  $(6 + 2) \times 2 + 1 = 17$   
 Similarly,  
 $(4 + 7) \times 2 + 1 = \mathbf{23}$
97. (A)  $6 + 9 = 15$   
 $\begin{matrix} +4 & & +2 \\ \swarrow & & \searrow \\ 17 & + & 10 = 27 \\ +4 & & +2 \\ \swarrow & & \searrow \\ 29 & + & 21 = 50 \\ +4 & & +2 \\ \swarrow & & \searrow \\ \mathbf{52} & & \mathbf{33} \end{matrix}$
98. (D)
99. (A) Number of odd days  
 $= 1 + 1 + 1 + 2 = 5$   
 $\therefore$  Required day = **saturday**
100. (B) Starting point  

101. (A) 
102. (A) 
103. (D) 
104. (D)
105. (A)  $2 \times 3 - 2 = 4$   
 $3 \times 4 - 3 = 9$   
 $4 \times 9 - 4 = 32$   
 $9 \times 32 - 9 = \mathbf{279}$
106. (A)  $34, 75, 133, \mathbf{209}, 304$   
 $\begin{matrix} +41 & +48 & +76 & +95 \\ \uparrow & \uparrow & \uparrow & \uparrow \\ +17 & +58 & +19 \end{matrix}$
107. (D) Required place =  $18 + 6 - 4 = 20$
108. (C) 

109. (B) **cab/bdc/ecd/fde/ge**
110. (D) 
- I.  $\times$   
 II.  $\times$   
 Neither conclusion I nor II follows.
111. (A) As,  
 $17 + 55 \Rightarrow \frac{72}{2} = 36$   
 and,  $97 + 47 \Rightarrow \frac{144}{2} = 72$   
 Similarly,  
 $28 + 56 \Rightarrow \frac{84}{2} = \mathbf{42}$
112. (B) 
113. (C)
114. (B)
115. (D)
116. (C) 
117. (C) 
118. (B) Let the fare from city P to Q and R = x and y  
 ATQ,  
 $2x + 3y = 84$  ..... (i)  
 $3x + 2y = 81$  ..... (ii)  
 On solving equation (i) and (ii),  
 We get,  
 $y = \mathbf{18}$   
 and  $x = \mathbf{15}$
119. (C) Total number of triangles = **8**
120. (A) Required number =  $10 + 10 = \mathbf{20}$

**Answer key**

1. (D)	16. (A)	31. (C)	46. (C)	61. (B)	76. (B)	91. (D)	106. (A)
2. (A)	17. (C)	32. (B)	47. (D)	62. (B)	77. (A)	92. (C)	107. (D)
3. (C)	18. (A)	33. (B)	48. (D)	63. (D)	78. (B)	93. (C)	108. (C)
4. (D)	19. (D)	34. (C)	49. (D)	64. (D)	79. (C)	94. (A)	109. (B)
5. (C)	20. (D)	35. (B)	50. (A)	65. (A)	80. (A)	95. (C)	110. (D)
6. (A)	21. (A)	36. (C)	51. (C)	66. (C)	81. (B)	96. (B)	111. (A)
7. (D)	22. (D)	37. (A)	52. (B)	67. (B)	82. (C)	97. (A)	112. (B)
8. (A)	23. (B)	38. (#)	53. (A)	68. (B)	83. (A)	98. (D)	113. (C)
9. (B)	24. (D)	39. (D)	54. (B)	69. (D)	84. (A)	99. (A)	114. (B)
10. (A)	25. (C)	40. (B)	55. (A)	70. (B)	85. (D)	100. (B)	115. (D)
11. (A)	26. (B)	41. (C)	56. (A)	71. (B)	86. (B)	101. (A)	116. (C)
12. (A)	27. (A)	42. (B)	57. (D)	72. (A)	87. (C)	102. (A)	117. (C)
13. (D)	28. (A)	43. (B)	58. (C)	73. (D)	88. (A)	103. (D)	118. (B)
14. (B)	29. (C)	44. (C)	59. (C)	74. (B)	89. (D)	104. (D)	119. (C)
15. (D)	30. (C)	45. (B)	60. (C)	75. (A)	90. (C)	105. (A)	120. (A)

**For all general competitive exams**



**CHAPTERS**

- ★ Foreign Words
- ★ Phrasal Verbs
- ★ Superfluous
- ★ Expression
- ★ Sentence Improvement

**Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003**

**Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts, also share your suggestions and experience of Sunday Mock**

**Note:- If you face any problem regarding result or marks scored, please contact 9313111777**