

HARYANA SSC MOCK TEST-30 (Solutions)

1. (B) Pair of words has been interchanged.

RO ⇒ OR:

AD ⇒ DA:

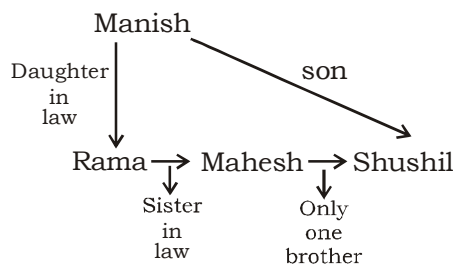
ROAD ⇒ ORDA

DATE ⇒ ADET

2. (D) Here Product - Raw Material relationship has been shown.

3. (B) Total number of students in the class = $17 + 49 - 1 = 65$

4. (C)



So, Rama is Shushil's wife.

5. (C) In each subsequent figure shaded part moves one sector in clockwise direction and one part gets shaded after every two figures.

6. (D) Chillies are green in colour. Here, Chillies are Bananas.

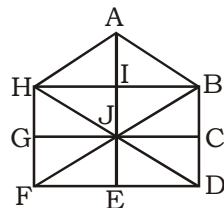
7. (A) $3 \times 2 + 4 - 2 \div 9 = ?$
 $\Rightarrow ? = 3 \div 2 \times 4 + 2 - 9$

$$? = \frac{3}{2} \times 4 + 2 - 9$$

$$\Rightarrow ? = 6 + 2 - 9 = -1$$

8. (A) Some (not all) dogs bark and all dogs bite. It implies that those dogs who do not bark, also bite. Thus, Conclusion I follows. All dogs bite whether these bark or not. Therefore, Conclusion II does not follow.

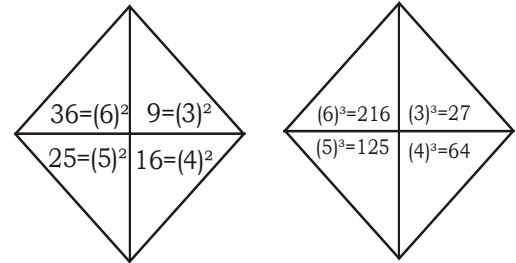
9. (C)



The triangles are:

- $\triangle AIH$; $\triangle AIB$; $\triangle IJH$; $\triangle IJB$; $\triangle HGJ$;
 $\triangle ABCJ$; $\triangle JGF$; $\triangle JEF$; $\triangle CJE$; $\triangle JED$;
 $\triangle HAJ$; $\triangle BAJ$; $\triangle JFH$; $\triangle JBD$; $\triangle JFD$;
 $\triangle JBH$; $\triangle HBD$; $\triangle BDF$; $\triangle HFD$; $\triangle BHF$;
 $\triangle JCD$

10. (C)



11. (D) Meaningful order of words :

3. Nutrition



2. Digestion



1. Absorption



4. Excretion

12. (B) col (tip) (mot) — (singing) (is) appreciable

(mot) (baj) (min) — (dancing) (is) good

(tip) (nop) (baj) — (singing) and (dancing)

13. (A) $(17 + 8) \div 5 = 6$
 $(13 + 7) \div 5 = 4$
 $(6 + 12) \div 6 = 3$
 $(10 + 6) \div 4 = 4$

14. (D)

8	13	7
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8	13	7
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837

8	13	7
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8	13	7
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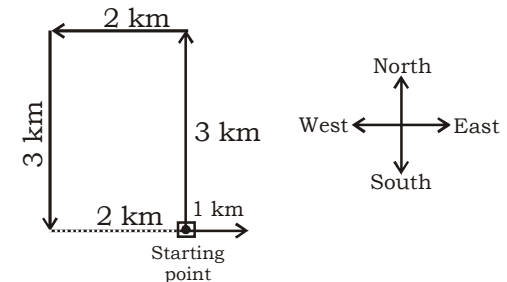
87

8	13	7
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87

Thus, there are 5 such 13s.

15. (A)



Required distance = 1 km

16. (C) The pattern is :

$$2 \times 3 - 1 = 5$$

$$5 \times 3 - 1 = 14$$

$$14 \times 3 - 1 = 41$$

$$41 \times 3 - 1 = 123 - 1 = 122$$

17. (A) Number of numbers divisible by 15 between 1 and 300 = 19

Number of numbers divisible by 15 between 1 and 100 = 6

∴ Required divisible numbers = $19 - 6 = 13$

18. (A) Original price of pen = ₹ x
 $\therefore \frac{x \times 90}{100} = 45 \Rightarrow x = \frac{45 \times 100}{90} = ₹ 50$

19. (C) Gain per cent
 $= \frac{4}{96} \times 100 = \frac{25}{6} = 4\frac{1}{6}\%$

20. (D) Let the income and expenditure are $12x$ and $10x$ respectively.

So, monthly saving
 $= 12x - 10x = 2x$

$\therefore 2x = \frac{18000}{12}$ (monthly saving)

$\Rightarrow 2x = 1500$

$\therefore x = 750$

\therefore Monthly income

$= 12x = 12 \times 750 = ₹ 9000$

21. (A) $\frac{x_1 + x_2 + \dots + x_{10}}{10} = y$ (average)

$\therefore x_1 + x_2 + \dots + x_{10} = 10y$

$\therefore x_1 + x_2 + \dots + x_{10} = 10y - 58$

the man of 58 kg replaces.

$\therefore \frac{x_1 + x_2 + \dots + x_{10}}{10} = (y + 1)$

$\Rightarrow x_1 + x_2 + \dots + x_{10} = (y + 1) 10$

$\Rightarrow 10y - 58 + x_{10} = 10y + 10$

$\therefore x_{10} = 68$ kg.

22. (D) $\frac{p}{q} = \frac{7}{8}$... (1)

$\frac{q}{r} = \frac{22}{7}$... (2)

Multiplying both the equation

$\frac{p}{q} \times \frac{q}{r} = \frac{7}{8} \times \frac{12}{7}$

$\Rightarrow \frac{p}{r} = \frac{3}{2}$

$\therefore p : r = 3 : 2$

23. (C) $\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$

$\Rightarrow \frac{2 \times 5}{2} = \frac{M_2 \times 10}{20}$

$\Rightarrow M_2 \times 10 = 100 \Rightarrow M_2 = 10$ typists

24. (C) Sum of six numbers

$= 6 \times 4.5 = 27$

Square of 3 = $3 \times 3 = 9$

Now, $\frac{27}{9} = 3$

25. (A) Effective change = 0

$\therefore 60 - x - \frac{60x}{100} = 0$

$\Rightarrow 60 - x - \frac{3x}{5} = 0$

$\Rightarrow \frac{8x}{5} = 60$

$\Rightarrow x = \frac{60 \times 5}{8} = 37.5\%$

26. (C) Speed of train

$= \frac{\text{Length of train}}{\text{Time taken}}$

$= \frac{132}{6} = 22$ m/sec

$= \left(22 \times \frac{18}{5}\right)$ kmph = 79.2 kmph

27. (C) Let the number be x .
According to the question,

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

$\Rightarrow 3x = 4x - 76 \Rightarrow 4x - 3x = 76$

$\Rightarrow x = 76$

28. (A) SI = 0.125; Principal = 1

Time = $\frac{\text{S.I.} \times 100}{\text{Principal} \times \text{Rate}}$

$= \frac{0.125 \times 100}{1 \times 10}$

$= 1.25$ years

$= 1\frac{1}{4}$ years.

29. (A) $\sqrt{7 + 4\sqrt{3}}$

$= \sqrt{4 + 3 + 2 \times 2 \times \sqrt{3}}$

$= \sqrt{2^2 + (\sqrt{3})^2 + 2 \times 2 \times \sqrt{3}}$

$= \sqrt{(2 + \sqrt{3})^2} = 2 + \sqrt{3}$

30. (C) Let $6.5 = a$ and $3.5 = b$

$\therefore 2ab = 2 \times 6.5 \times 3.5 = 45$

\therefore Expression

$= (a^2 - 2ab + b^2) = (a - b)^2$

$= (6.5 - 3.5)^2 = 3^2 = 9$



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HARYANA SSC MOCK TEST-30 (ANSWER KEY)

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