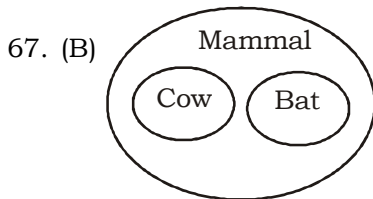## HARYANA MOCK TEST – 112 (SOLUTION)

61. (A) $4 \Rightarrow 4^3 - 4^2 = 64 - 16 = 48$
    $5 \Rightarrow 5^3 - 5^2 = 125 - 25 = \mathbf{100}$

62. (D) All except Chess are outdoor games.

63. (A) Let d and s represent the number of daughters and sons respectively.
    Then, we have :
    $d - 1 = s$ and $2(s - 1) = d$.
    Solving these two equations,
    we get: $d = 4$, $s = 3$
    So, total no of children = 3 + 4 = 7

64. (B) C**A**RE

65. (D) $8 \times 6 \div 2 - 4 + 8 = 28$
    $\Rightarrow 8 \times 3 - 4 + 8 = 28$
    $\Rightarrow 24 - 4 + 8 = 28$
    $\Rightarrow 24 + 4 = 28$
    $\Rightarrow 28 = 28$

66. (B) From third and fourth dice, it is clear that digit 2, 3, 4 and 6 can't be opposite to digit 1. So, we can say that digit 5 is opposite to 1 and vice versa.

67. (B)

68. (C) Present Age $\rightarrow$ Grandfather
    Raju

	x	$x - 65$
After 10 years $\rightarrow$	$x + 10$	$x - 65 + 10$
		or
		$x - 55$

    So, $x + 10 + x - 55 = 95$
    $\Rightarrow 2x - 45 = 95$
    $\Rightarrow 2x = 95 + 45 = 140$
    $\Rightarrow x = 70$
    Thus, Grandfather's Age = 70 years
    and Raju's Age = 5 years

69. (A)

70. (C)

71. (D) $5\% \rightarrow \dfrac{1}{20}$, $10\% \rightarrow \dfrac{1}{10}$

20	—	21
20	—	19
10	—	9
4000	—	3591
$\downarrow$		$\downarrow$
In Jan		In April
month		month

72. (C) The minimum number of Bananas
    = L.C.M of (6, 8, 10, 12, 15, 16) + 4
    = 24 + 4 $\Rightarrow$ 244

73. (A)

	Ist yr	IInd yr	IIIrd yr
S.I $\rightarrow$	300	300	300
C.I $\rightarrow$		18	

    $\therefore$ r % = $\dfrac{18}{300} \times 100 \Rightarrow 6\%$

    Difference between S.I and C.I according to the rate for two years $\rightarrow 0.36\%$
    ATQ, $\rightarrow 0.36 = ₹ 18$ (given)

    $\therefore$ Principal = $\dfrac{1800}{36} \times 100$

    $\Rightarrow$ ₹ 5000

74. (A) $25\% = \dfrac{1 \rightarrow \text{Profit}}{4 \rightarrow \text{CP}}$

    CP : SP
    Old $\rightarrow$ $4x$: $5x$
    Similarly,
    CP : SP
    New $\rightarrow (4x - 950) : (5x - 950)$

    $\dfrac{(4x - 950)}{(5x - 950)} = \dfrac{10}{13} \left[\therefore 30\% = \dfrac{3}{10} \right]$
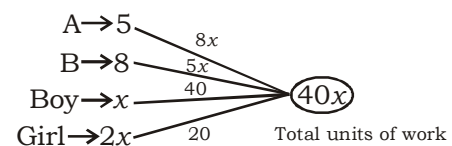
    $52x - 950 \times 13 = 50x - 950 \times 10$
    $2x = 950 (13 - 10)$
    $x = 475 \times 3 = 1425$
    Cost price = $4x = 4 \times 1425 = ₹ 5700$

75. (A) ATQ,

	Boy : Girl
Efficiency :	$2x$: x
Time :	x : $2x$

    A$\rightarrow$5 ⟍ $8x$
    B$\rightarrow$8 ⟍ $5x$
    Boy$\rightarrow x$ — 40 → (40x)
    Girl$\rightarrow 2x$ ⟋ 20   Total units of work

    ATQ, $\dfrac{40x}{13x + 60} = 3$

    $\Rightarrow 39x + 180 = 40x$
    $\Rightarrow x = 180$ days
    Time taken by the boy to complete the work = 180 days
    Time taken by girl to complete the work = 360 days
    Ratio of efficienies =

A	:	B	:	Boys	:	Girl
8 × 180	:	5 × 180	:	40	:	20
72	:	45	:	2	:	1

    Recieved wages = ₹ 4800

    Now, share of A = $\dfrac{4800}{120} \times 72 = ₹ 2880$

share of B = $\dfrac{4800}{120} \times 45 = ₹\ 1800$

share of Boy = $\dfrac{4800}{120} \times 2 = ₹\ 80$

share of Girl = $\dfrac{4800}{120} \times 1 = ₹\ 40$

76. (A) Let the fraction be = $\dfrac{100}{100}$

ATQ,

$\dfrac{140}{200} \times \dfrac{16}{7}$

∴ Original fraction = $\dfrac{5}{8}$

77. (D) Let the number of students be x then we have,

$\dfrac{x}{2} - 5 = \dfrac{x}{3} - 2$

$\Rightarrow \dfrac{x}{2} - \dfrac{x}{3} = 3$

$\Rightarrow \dfrac{3x - 2x}{6} = 3$

$\Rightarrow x = 18$

So, the number of students = 18

78. (C) The minute hand complete one revolution in 60 minute.

∴ In 50 minute it will cover $\dfrac{50}{60} = \dfrac{5}{6}$

of the revolution.

∵ 1 revolution = 2π radian.

∴ $\dfrac{5}{6}$ revolution = $2\pi \times \dfrac{5}{6} = \dfrac{5\pi}{3}$ radian

∴ Distance moved by tip = $3 \times \dfrac{5\pi}{3}$ cm

= 5π cm

= $5 \times \dfrac{22}{7}$ cm = 15.71 cm

79. (C) Cost price of article = ₹ 400

Marked price = $400 \times \dfrac{(100 + 80)}{100} = ₹\ 720$

Selling price after discount

= $720 \times \dfrac{(100 - 15)}{100}$

= $\dfrac{720 \times 85}{100}$

CP : SP
400 : 612
+212

Profit % = $\dfrac{212}{400} \times 100 = 53\%$

80. (B) Total weight of 5 persons = 190 kg
Weight of Boat and 5 persons = 52 × 06
= 312 kg
∴ Weight of ⇒ 312 – 190
Boat = 122 kg

HARAYANA MOCK TEST – 112 (ANSWER KEY)

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

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. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

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