

SECTION 1 (Mental Maths Calculation)

1. $(28 \times 5) + (22 \times 4) =$ _____
 (a) 238 (b) 228
 (c) 248 (d) 218
2. $(84 \times 4) + (92 \times 5) =$ _____
 (a) 786 (b) 896
 (c) 796 (d) 776
3. $(45 \times 7) - (31 \times 5) =$ _____
 (a) 150 (b) 160
 (c) 140 (d) 260
4. $(91 \times 3) - (54 \times 2) =$ _____
 (a) 175 (b) 255
 (c) 185 (d) 165
5. $(40\% \text{ of } 80) + (50\% \text{ of } 38) =$

 (a) 41 (b) 51
 (c) 50 (d) 61
6. $(40\% \text{ of } 485) - (30\% \text{ of } 630) =$

 (a) 5 (b) 6
 (c) 3 (d) 2
7. $(\text{half of } 80) + (\frac{1}{4} \text{ of } 76) =$

 (a) 59 (b) 60
 (c) 61 (d) 49
8. $(\text{one third of } 180) - (\frac{1}{4} \text{ of } 160)$
 $=$ _____
 (a) 30 (b) 20
 (c) 10 (d) 40
9. $(15\% \text{ of } 90) + (5\% \text{ of } 40) =$

 (a) 14.5 (b) 13.5
 (c) 15.5 (d) 16.5
10. $(20\% \text{ of } 70) + (5\% \text{ of } 90) =$

 (a) 17.5 (b) 18.5
 (c) 20.5 (d) 20
11. $\text{square of } 13 + \text{square of } 17 =$

 (a) 458 (b) 558
 (c) 468 (d) 568
12. $\text{square of } 24 - \text{square } 18 =$

 (a) 252 (b) 152
 (c) 322 (d) 222
13. $(\text{cube of } 8) + (\text{cube of } 7) =$

 (a) 835 (b) 845
 (c) 865 (d) 855

14. (cube of 16) – (cube of 7) = _____

- (a) 3753 (b) 3743
(c) 7653 (d) 3663

15. $\sqrt{576} \times \sqrt{169} =$ _____

- (a) 288 (b) 312
(c) 336 (d) 229

16. $\sqrt{324} - \sqrt{289} =$ _____

- (a) 2 (b) 1
(c) 3 (d) 4

17. $\sqrt{625} + \sqrt{196} =$ _____

- (a) 38 (b) 37
(c) 39 (d) 40

18. $\sqrt{144} \div \sqrt{16} =$ _____

- (a) 4 (b) 5
(c) 3 (d) 6

19. The sum of divisors of 45 is _____

- (a) 70 (b) 78
(c) 79 (d) 75

20. The sum of all prime divisors of 250 is _____

- (a) 10 (b) 5
(c) 7 (d) 9

21. Select the smallest number obtained from the given operations.

- (a) $96 \div 6$ (b) $212 - 198$
(c) 4×3 (d) $75 \div 5$

22. Select the greatest number obtained from following operations.

- (a) $27 + \sqrt{144}$ (b) $\sqrt{225} - \sqrt{16}$
(c) $297 - 263$ (d) $9^2 - \sqrt{5041}$

23. If 129 is divided by 24, the remainder is _____

- (a) 9 (b) 8
(c) 7 (d) 6

24. If 218 is divided by 15, the remainder is _____

- (a) 7 (b) 9
(c) 8 (d) 6

25. If 148 is divided by 21, the remainder is _____

- (a) 2 (b) 3
(c) 1 (d) 4

26. If 189 is divided by 14 the remainder is _____

- (a) 9 (b) 8
(c) 6 (d) 7

27. $4150 \times 16 =$ _____
 (a) 65400 (b) 66400
 (c) 65300 (d) 66300
28. $9250 \times 18 =$ _____
 (a) 166400 (b) 165500
 (c) 166500 (d) 165400
29. $4.15 \times 15 =$ _____
 (a) 62.15 (b) 6.225
 (c) 6.215 (d) 62.25
30. $4.2 \times 3.1 =$ _____
 (a) 13.02 (b) 130.2
 (c) 1.302 (d) 0.1302
31. H.C.F of 50, 80, 90 is _____
 (a) 10 (b) 16
 (c) 5 (d) 25
32. L.C.M. of 4, 6 and 14 is _____
 (a) 42 (b) 24
 (c) 84 (d) 70
33. $26.052 + 8.125 + 4.5 =$ _____
 (a) 38.667 (b) 38.677
 (c) 38.477 (d) 38.577
34. $24 - 5.6 + 8.134 + 0.002 =$ _____
 (a) 26.616 (b) 26.726
 (c) 26.536 (d) 2.6726
35. $3\frac{1}{3} + 5\frac{3}{4} =$
 (a) $\frac{55}{6}$ (b) 9
 (c) $\frac{109}{12}$ (d) $\frac{107}{12}$
36. $\square - \frac{7}{8} = \frac{1}{3}$
 (a) $\frac{5}{4}$ (b) $\frac{3}{2}$
 (c) $\frac{29}{24}$ (d) $\frac{13}{8}$
37. $(42 \times 81) + (31 \times 4) =$ _____
 (a) 3536 (b) 3516
 (c) 3426 (d) 3526
38. Double of 1048 is _____
 (a) 2096 (b) 2196
 (c) 2086 (d) 2076
39. Half of 3942 is _____
 (a) 1961 (b) 1871
 (c) 1951 (d) 1971
40. The ratio of 20 min to 2.4 hours is _____
 (a) $\frac{6}{31}$ (b) $\frac{5}{36}$
 (c) $\frac{4}{31}$ (d) $\frac{1}{6}$

SECTION 2
(Mental Maths Concepts)

- 41.** $[80 - \{40 \div (60 \div 6)\}] - 32$
 (a) 44 (b) 41
 (c) 40 (d) 45
- 42.** Which of the following pairs of number do not have common factor other than 1.
 (a) 26, 13 (b) 48, 36
 (c) 81, 27 (d) 15, 4
- 43.** $[6^2 + 4^2 + 7^2] - [\sqrt{324}]$
 (a) 87 (b) 85
 (c) 82 (d) 83
- 44.** $\left(\frac{7}{8} - \frac{1}{4}\right) + \left(\frac{2}{9} + \frac{1}{3}\right) =$
 (a) $\frac{85}{72}$ (b) $\frac{11}{9}$
 (c) $\frac{83}{72}$ (d) $\frac{43}{36}$
- 45.** $0.3 \times 0.4 \times 1.6 =$ _____
 (a) 0.00192 (b) 0.192
 (c) 1.92 (d) 0.0192
- 46.** $0.52 \div 0.13 =$ _____
 (a) 0.4 (b) 40
 (c) 4 (d) 0.04
- 47.** Anil bought a car for ₹ 2,40,000. After 6 months he sold it out at a loss of 25% find the selling price of a car.
 (a) 1,90,000 (b) 1,80,000
 (c) 1,18,000 (d) 1,08,000
- 48.** On the purchase of a shirt and a pant Rahul got a discount of 15% and 20% respectively. If M.R.P. of shirt is ₹ 700 and pant is ₹ 800. How much did he pay for 2 shirts and 3 pants after discount
 (a) ₹ 690 (b) ₹ 3110
 (c) ₹ 3010 (d) ₹ 3000
- 49.** What will be the Sixth term as per the given number pattern 45,54,63,72 __, __, __
 (a) 81 (b) 99
 (c) 90 (d) 89
- 50.** Write as percentage $3\frac{5}{40}$
 (a) 312.5 (b) 3125
 (c) 3.125 (d) 31.25
- 51.** 25 centigram = ___ hectogram
 (a) 0.25 (b) 0.025
 (c) 0.00025 (d) 0.0025

52. 432 decilitre = _____ Decalitre

- (a) 0.0432 (b) 4.32
(c) 43.2 (d) 0.00432

53. Find the ratio of :-

2 and $\frac{1}{3}$ year, 4 years 5 months

- (a) $\frac{28}{53}$ (b) $\frac{10}{19}$
(c) $\frac{14}{27}$ (d) $\frac{29}{53}$

54. The average of eight numbers is 7. If sum of first seven numbers is 48 Find the 9th number.

- (a) 8 (b) 10
(c) 7 (d) 9

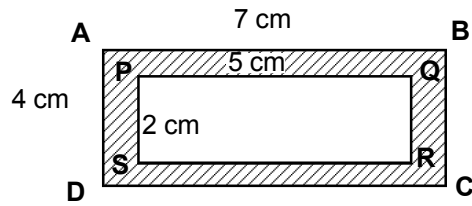
55. If the measures of two angles of a triangle are 45° and 32° . Find the measure of it's remaining angle.

- (a) 23° (b) 13°
(c) 93° (d) 103°

56. The measure of an angle is 41.3° . Find the measure of its complementary angle.

- (a) 48.7° (b) 138.7°
(c) 35.7° (d) 139.7°

57.



In the given rectangle ABCD and PQRS the area of shaded portion is _____ sq cm.

- (a) 38 (b) 28
(c) 27 (d) 18

58. If the length of congruent sides of isosceles triangle is 5.3 cm and perimeter is 16.5 cm. The length of 3rd side is _____ cm

- (a) 5.8 (b) 5.9
(c) 4.9 (d) 5.0

59. A square has a side of 26 cm. A smaller square of side 15 cm has been cut out of it. The area remaining is _____ sq. cm

- (a) 441 (b) 451
(c) 461 (d) 431

60. If the radius of circle is 28 cm. Find it area if ($\pi = 22/7$)

- (a) 176 sq cm (b) 166 sq cm
(c) 2464 sq cm (d) 2564 sq cm

SECTION 3 (Mental Maths Challenge)

61. A dinner of ₹ 1850 was shared by 5 people. If Mr. Gupta paid ₹ 50 more than each of other people, how much did Mr. Gupta pay?
(a) ₹ 450 (b) ₹ 330 (c) ₹ 300 (d) ₹ 410
62. Mr. Mehta spent 35% of his salary on transport. He spent ₹ 250 more on his rent than transport. If Mr. Mehta earned ₹ 6000, how much he saved in the end?
(a) ₹ 1350 (b) ₹ 1550 (c) ₹ 1450 (d) ₹ 1650
63. If the circular playground with the radius 21 metre is levelled at rate of ₹ 60 per square metre. The total cost of leveling the ground is ₹ _____
(a) 84160 (b) 83160 (c) 82160 (d) 81160
64. Which of the following number is exactly divisible by eight.
(a) 68280 (b) 66796 (c) 66357 (d) 68942
65. Mrs. Radha earns ₹ 3240 per month, After getting 5% increase in salary, calculate her annual income as per new salary.
(a) ₹ 39880 (b) ₹ 41824 (c) ₹ 38880 (d) ₹ 40824

- 66.** The ratio's of the angles of triangle are 4:6:5. Find the difference between the greatest and the smallest angles of that triangle.
(a) 18° (b) 6° (c) 24° (d) 66°
- 67.** If $\frac{2}{3} \times \frac{5}{2} \times \square = \frac{5}{8} \times 24$ then \square ?
(a) 3 (b) 9 (c) 18 (d) 4
- 68.** A dealer wishes to make a profit of 30% by selling an article. At what price should he sell the article, if the cost price is ₹ 330 ?
(a) ₹ 329 (b) ₹ 429 (c) ₹ 419 (d) ₹ 231
- 69.** The traffic signals lights at three different road crossing change after every 18 seconds, 30 seconds and 24 seconds respectively. If they all change simultaneously at 9.20 hours, then they will again change simultaneously at _____
(a) 9 : 24 hrs (b) 9:27 hrs (c) 9:25 hrs (d) 9 : 26 hrs
- 70.** 10% of 500 will be how much less than 10% of 610.
(a) 13 (b) 11 (c) 12 (d) 21

71. $5\frac{3}{8} - \left[\frac{3}{4} + \left(2\frac{1}{4} - \frac{1}{3} \right) \right] = ?$

(a) $\frac{65}{24}$

(b) $\frac{8}{3}$

(c) $\frac{11}{4}$

(d) $\frac{67}{24}$

72. The sum of 6 consecutive even numbers is 222. Find the smallest of them.

(a) 28

(b) 30

(c) 34

(d) 32

73. Mrs. Ranjana spent $\frac{2}{5}$ of her money and 600 is left. How much did she have first

(a) ₹ 500

(b) ₹ 1000

(c) ₹ 1500

(d) ₹ 2000

74. During a sport day, there were 324 more boys than girls and there were 212 fewer teachers than girls. How many people were there altogether if there were 84 teachers?

(a) 921

(b) 831

(c) 1000

(d) 704

75. $\frac{(0.4)(0.3) + (0.5 \times 0.2) + (0.6 \times 0.1)}{10.3 + 0.21} = ?$

(a) 56

(b) 0.056

(c) 0.026

(d) 5.6