

SECTION 1 (Mental Maths Calculation)

1. $(22 \times 7) + (23 \times 6) =$ _____
 (a) 234 (b) 434
 (c) 292 (d) 324
2. $(95 \times 3) + (83 \times 7) =$ _____
 (a) 866 (b) 826
 (c) 846 (d) 766
3. $(66 \times 6) - (37 \times 8) =$ _____
 (a) 100 (b) 104
 (c) 90 (d) 94
4. $(88 \times 6) - (64 \times 7) =$ _____
 (a) 84 (b) 70
 (c) 90 (d) 80
5. $(40\% \text{ of } 480) + (50\% \text{ of } 200) =$

 (a) 282 (b) 292
 (c) 272 (d) 302
6. $(40\% \text{ of } 600) - (30\% \text{ of } 150) =$

 (a) 150 (b) 195
 (c) 135 (d) 120
7. $(\text{half of } 70) + (\frac{1}{4} \text{ of } 76) =$

 (a) 54 (b) 52
 (c) 44 (d) 64
8. $(\text{one third of } 66) - (\frac{1}{4} \text{ of } 40)$
 $=$ _____
 (a) 14 (b) 12
 (c) 10 (d) 22
9. $(15\% \text{ of } 80) + (5\% \text{ of } 80) =$

 (a) 12 (b) 14
 (c) 16 (d) 10
10. $(20\% \text{ of } 80) + (5\% \text{ of } 70) =$

 (a) 19.5 (b) 17.5
 (c) 19.0 (d) 18.5
11. $\text{square of } 11 + \text{square of } 10 =$

 (a) 244 (b) 250
 (c) 221 (d) 185
12. $\text{square of } 24 - \text{square } 17 =$

 (a) 336 (b) 320
 (c) 301 (d) 287
13. $(\text{cube of } 9) + (\text{cube of } 7) =$

 (a) 1217 (b) 1521
 (c) 1072 (d) 1241

14. (cube of 9) – (cube of 8) = _____

- (a) 217 (b) 202
(c) 197 (d) 252

15. $\sqrt{144} \times \sqrt{484} =$ _____

- (a) 262 (b) 254
(c) 202 (d) 264

16. $\sqrt{169} - \sqrt{64} =$ _____

- (a) 11 (b) 7
(c) 9 (d) 5

17. $\sqrt{361} + \sqrt{196} =$ _____

- (a) 42 (b) 30
(c) 33 (d) 35

18. $\sqrt{256} \div \sqrt{16} =$ _____

- (a) 8 (b) 6
(c) 5 (d) 4

19. The sum of divisors of 36 is _____

- (a) 85 (b) 91
(c) 97 (d) 83

20. The sum of all prime divisors of 360 is _____

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

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

- (a) 3×5 (b) $193 - 186$
(c) $96 \div 16$ (d) $95 \div 5$

22. Select the greatest number obtained from following operations.

- (a) $\sqrt{169} - \sqrt{121}$ (b) $\sqrt{121} + 25$
(c) $10^2 - \sqrt{100}$ (d) $285 - 267$

23. If 123 is divided by 23, the remainder is _____

- (a) 8 (b) 3
(c) 10 (d) 13

24. If 220 is divided by 27, the remainder is _____

- (a) 4 (b) 2
(c) 7 (d) 3

25. If 140 is divided by 22, the remainder is _____

- (a) 6 (b) 8
(c) 5 (d) 2

26. If 174 is divided by 12 the remainder is _____

- (a) 2 (b) 3
(c) 6 (d) 4



- 27.** $4126 \times 17 =$ _____
 (a) 74438 (b) 74428
 (c) 70142 (d) 48348
- 28.** $9413 \times 19 =$ _____
 (a) 180072 (b) 178847
 (c) 160082 (d) 16072
- 29.** $4.43 \times 17 =$ _____
 (a) 77.31 (b) 75.31
 (c) 75.33 (d) 73.13
- 30.** $5.3 \times 1.7 =$ _____
 (a) 9.11 (b) 9.01
 (c) 8.91 (d) 9.89
- 31.** H.C.F of 40, 80, 60 is _____
 (a) 20 (b) 40
 (c) 60 (d) 80
- 32.** L.C.M. of 12, 16 and 18 is _____
 (a) 144 (b) 208
 (c) 498 (d) 138
- 33.** $27.078 + 9.007 + 3.9 =$ _____
 (a) 49.985 (b) 39.781
 (c) 49.785 (d) 39.985
- 34.** $23 - 6.5 + 0.006 + 9.003 =$ _____
 (a) 25.509 (b) 27.509
 (c) 26.511 (d) 25.519
- 35.** $4\frac{1}{3} + 3\frac{3}{4} =$
 (a) $8\frac{11}{12}$ (b) $7\frac{3}{7}$
 (c) $8\frac{1}{12}$ (d) $7\frac{11}{12}$
- 36.** $\square - \frac{7}{8} = \frac{1}{3}$
 (a) $\frac{9}{8}$ (b) $\frac{29}{24}$
 (c) $\frac{27}{24}$ (d) $\frac{22}{23}$
- 37.** $(43 \times 2) + (43 \times 88) =$ _____
 (a) 3770 (b) 3870
 (c) 3820 (d) 3670
- 38.** Double of 1377 is _____
 (a) 2754 (b) 2724
 (c) 2444 (d) 2642
- 39.** Half of 4396 is _____
 (a) 2198 (b) 2178
 (c) 2148 (d) 2248
- 40.** The ratio of 20 min to 2.5 hours is _____
 (a) $\frac{2}{17}$ (b) $\frac{2}{11}$
 (c) $\frac{2}{15}$ (d) $\frac{2}{13}$

SECTION 2
(Mental Maths Concepts)

41. $[91 - \{50 \div (40 \div 4)\}] - 29$

- (a) 77 (b) 57
 (c) 67 (d) 87

42. Which of the following pairs of number do not have common factor other than 1.

- (a) 25, 35 (b) 24, 16
 (c) 15, 5 (d) 47, 7

43. $[6^2 + 7^2 + 5^2] - [\sqrt{256}]$

- (a) 91 (b) 92
 (c) 93 (d) 94

44. $\left(\frac{4}{9} - \frac{1}{3}\right) + \left(\frac{5}{6} + \frac{2}{3}\right) =$

- (a) $\frac{29}{18}$ (b) $\frac{19}{18}$
 (c) $\frac{17}{18}$ (d) $\frac{14}{18}$

45. $0.7 \times 0.9 \times 1.3 =$ _____

- (a) 0.819 (b) 8.19
 (c) 0.0819 (d) 81.9

46. $0.56 \div 0.7 =$ _____

- (a) 0.08 (b) 0.008
 (c) 0.8 (d) 8.0

47. Anil bought a car for ₹ 2,00,000. After 5 months he sold it out at a loss of 20% find the selling price of a car.

- (a) 1,40,000 (b) 1,60,000
 (c) 1,20,000 (d) 1,80,000

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 ₹ 400 and pant is ₹ 1000. How much did he pay for 2 shirts and 1 pants after discount

- (a) ₹ 840 (b) ₹ 1040
 (c) ₹ 1200 (d) ₹ 1480

49. What will be the Sixth term as per the given number pattern 37,49,61,73 __, __, __

- (a) 95 (b) 75
 (c) 97 (d) 107

50. Write as percentage $4\frac{4}{20}$

- (a) 420 (b) 4.2%
 (c) 42 (d) 42.20%

51. 24 centigram = ___ hectogram

- (a) 0.26 (b) 0.00026
 (c) 0.0024 (d) 0.026

52. 328 decilitre = _____ Decalitre
- (a) 3.28 (b) 0.328
(c) 32.8 (d) 0.0328

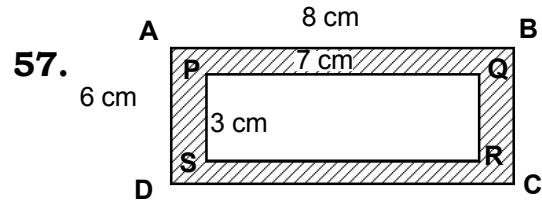
53. Find the ratio of :-
1 and $\frac{1}{2}$ year, 2 years 2 months

- (a) $\frac{1}{2}$ (b) $\frac{19}{26}$
(c) $\frac{9}{13}$ (d) $\frac{17}{26}$

54. The average of eight numbers is 8. If sum of first seven numbers is 44 Find the 8th number.
- (a) 20 (b) 7
(c) 11 (d) 9

55. If the measures of two angles of a triangle are 66° and 23° . Find the measure of its remaining angle.
- (a) 101° (b) 81°
(c) 91° (d) 88°

56. The measure of an angle is 68.5° . Find the measure of its complementary angle.
- (a) 21.5° (b) 28.5°
(c) 30.5° (d) 29.5°



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

- (a) 24 (b) 32
(c) 27 (d) 28
58. If the length of congruent sides of isosceles triangle is 6.9 cm and perimeter is 21.3 cm. The length of 3rd side is _____ cm
- (a) 7.5 (b) 9.5
(c) 7 (d) 8
59. A square has a side of 9 cm. A smaller square of side 3 cm has been cut out of it. The area remaining is _____ sq. cm
- (a) 69 (b) 40
(c) 72 (d) 62
60. If the radius of circle is 14 cm. Find its area if $(\pi = \frac{22}{7})$
- (a) 616 sq cm (b) 606 sq cm
(c) 726 sq cm (d) 596 sq cm

SECTION 3 (Mental Maths Challenge)

- 61.** The traffic signals lights at three different road crossing change after every 30 seconds, 70 seconds and 90 seconds respectively. If they all change simultaneously at 8.00 hours, then they will again change simultaneously at _____
(a) 8 : 10 : 00 (b) 8 : 10 : 50 (c) 8 : 10 : 30 (d) 8 : 10 : 45
- 62.** In a triangle ABC, measures of $\angle B$ is twice of measure of $\angle A$ and measure of $\angle C = 30^\circ$, find the measure of $\angle A$.
(a) 50° (b) 60° (c) 70° (d) 80°
- 63.** $\left[\frac{1}{3} + (0.54) \right] - \frac{4}{5} = ?$
(a) $\frac{9}{150}$ (b) $\frac{10}{150}$ (c) $\frac{11}{150}$ (d) $\frac{13}{150}$
- 64.** A dealer wishes to make a profit of 40% by selling an article. At what price should he sell the article, if the cost price is ₹ 50 ?
(a) ₹ 70 (b) ₹ 90 (c) ₹ 75 (d) ₹ 60
- 65.** Ansh walked 13 km to his school, he walked 800m to his friend Krishna's house. Then he walked 12 km back to his home. How far did he walk?
(a) 25.0 km (b) 26.3 km (c) 25.8 km (d) 26.8 km

66. Mr. Lobo spent 20% of his salary on transport. He spent 10% more on his rent. If Mr. Lobo earned ₹ 8000, how much he saved in the end?
(a) ₹ 4640 (b) ₹ 5540 (c) ₹ 4490 (d) ₹ 4600
67. If $4 \times 6 \times \square = 14 \times 12$ then \square ?
(a) 6 (b) 9 (c) 7 (d) 8
68. During a sport day, there were 225 more boys than girls and there were 268 fewer teachers than girls. How many people were there altogether if there were 68 teachers?
(a) 965 (b) 561 (c) 957 (d) 560
69. $\frac{\sqrt{144}}{(4 \times 2) + 4} = \square$
(a) 7 (b) 3 (c) 1 (d) 4
70. 15 ball pens cost ₹ 75, how much does 2 dozen of ball pen cost?
(a) ₹ 120 (b) ₹ 100 (c) ₹ 110 (d) ₹ 80

71. Raju has scored 91 marks in his English test, but he has the same score for his History and Maths paper. If his average score for 3 subject is 85 marks. What score does he get for the Maths test?
- (a) 86 (b) 94 (c) 84 (d) 82
72. $\frac{\sqrt{m}}{8} = 8$ Find the value of m.
- (a) 1296 (b) 64 (c) 4046 (d) 4096
73. $\frac{(0.4)(0.3) + 0.6 \times 0.2 + (0.2 \times 0.2)}{(0.6 + 0.2)} = ?$
- (a) 0.55 (b) 0.35 (c) 0.60 (d) 0.45
74. If the circular playground with the radius 14 metre is levelled at rate of ₹ 40 per square metre. The total cost of leveling the ground is ₹ _____
- (a) 24540 (b) 30600 (c) 15600 (d) 24640
75. The ratio's of the angles of triangle are 1:2:3 Find the difference between the greatest and the smallest angles of that triangle.
- (a) 60° (b) 50° (c) 80° (d) 40°