


SECTION 1 (Mental Maths Calculation)

1. $(28 \times 6) + (21 \times 7) =$ _____
 (a) 305 (b) 315
 (c) 325 (d) 415
2. $(96 \times 3) + (25 \times 8) =$ _____
 (a) 468 (b) 478
 (c) 488 (d) 498
3. $(68 \times 8) - (16 \times 6) =$ _____
 (a) 448 (b) 458
 (c) 468 (d) 478
4. $(60 \times 40) - (20 \times 15) =$ _____
 (a) 2400 (b) 2300
 (c) 2200 (d) 2100
5. $(40\% \text{ of } 60) + (50\% \text{ of } 90) =$

 (a) 69 (b) 59
 (c) 79 (d) 49
6. $(40\% \text{ of } 80) - (30\% \text{ of } 90) =$

 (a) 5 (b) 6
 (c) 3 (d) 2
7. $(\text{half of } 80) + (\frac{1}{4} \text{ of } 60) =$

 (a) 45 (b) 65
 (c) 75 (d) 55
8. $(\text{one third of } 150) - (\frac{1}{4} \text{ of } 160)$
 $=$ _____
 (a) 10 (b) 20
 (c) 5 (d) 15
9. $(15\% \text{ of } 70) + (5\% \text{ of } 80) =$

 (a) 14.5 (b) 15.5
 (c) 16.5 (d) 17.5
10. $(20\% \text{ of } 90) + (5\% \text{ of } 70) =$

 (a) 20.5 (b) 19.5
 (c) 22.5 (d) 21.5
11. $\text{square of } 13 + \text{square of } 14 =$

 (a) 345 (b) 355
 (c) 365 (d) 375
12. $\text{square of } 26 - \text{square } 19 =$

 (a) 305 (b) 315
 (c) 325 (d) 335
13. $(\text{cube of } 6) + (\text{cube of } 9) =$

 (a) 900 (b) 925
 (c) 945 (d) 975



14. (cube of 10) – (cube of 5) = _____

- (a) 750 (b) 775
(c) 875 (d) 857

15. $\sqrt{576} \times \sqrt{144} =$ _____

- (a) 278 (b) 288
(c) 298 (d) 308

16. $\sqrt{625} - \sqrt{169} =$ _____

- (a) 12 (b) 13
(c) 14 (d) 15

17. $\sqrt{361} + \sqrt{256} =$ _____

- (a) 37 (b) 36
(c) 34 (d) 35

18. $\sqrt{400} \div \sqrt{16} =$ _____

- (a) 8 (b) 25
(c) 5 (d) $50\sqrt{2}$

19. The sum of divisors of 64 is _____

- (a) 128 (b) 127
(c) 124 (d) 122

20. The sum of all prime divisors of 270 is _____

- (a) 5 (b) 15
(c) 20 (d) 10

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

- (a) $84 \div 4$ (b) $190 - 180$
(c) 2×7 (d) $95 \div 19$

22. Select the greatest number obtained from following operations.

- (a) $24 + \sqrt{169}$ (b) $\sqrt{144} - \sqrt{81}$
(c) $295 - 267$ (d) $10^2 - \sqrt{100}$

23. If 128 is divided by 23, the remainder is _____

- (a) 14 (b) 13
(c) 12 (d) 16

24. If 210 is divided by 18, the remainder is _____

- (a) 14 (b) 13
(c) 12 (d) 16

25. If 148 is divided by 22, the remainder is _____

- (a) 14 (b) 13
(c) 12 (d) 16

26. If 174 is divided by 21 the remainder is _____

- (a) 2 (b) 6
(c) 4 (d) 5



27. $4236 \times 18 =$ _____
 (a) 76248 (b) 76468
 (c) 76448 (d) 76498
28. $1678 \times 24 =$ _____
 (a) 40272 (b) 41292
 (c) 41272 (d) 40172
29. $4729 \times 26 =$ _____
 (a) 123054 (b) 122954
 (c) 124054 (d) 123154
30. $5.5 \times 6.7 =$ _____
 (a) 35.50 (b) 33.85
 (c) 36.85 (d) 31.95
31. H.C.F of 70, 20, 150 is _____
 (a) 20 (b) 10
 (c) 30 (d) 50
32. L.C.M. of 12, 16 and 20 is _____
 (a) 140 (b) 280
 (c) 170 (d) 240
33. $27.076 + 3.29 + 6.72 =$ _____
 (a) 37.086 (b) 37.016
 (c) 37.806 (d) 37.096
34. $35 - 6.5 + 9.725 + 0.021 =$ _____
 (a) 38.216 (b) 38.246
 (c) 38.206 (d) 38.226
35. $4\frac{1}{4} + 2\frac{1}{3} =$
 (a) $8\frac{11}{12}$ (b) $3\frac{11}{12}$
 (c) $9\frac{11}{12}$ (d) $6\frac{7}{12}$
36. $\square - \frac{5}{8} = \frac{1}{4}$
 (a) $\frac{7}{8}$ (b) $\frac{6}{8}$
 (c) $\frac{9}{8}$ (d) $\frac{3}{8}$
37. $(35 \times 68) + (72 \times 41) =$ _____
 (a) 5222 (b) 5332
 (c) 5122 (d) 5312
38. Double of 1036 is _____
 (a) 2042 (b) 2062
 (c) 2072 (d) 2082
39. Half of 4298 is _____
 (a) 4149 (b) 2249
 (c) 2149 (d) 2148
40. The ratio of 30 min to 4 hours is _____
 (a) $\frac{6}{9}$ (b) $\frac{1}{8}$
 (c) $\frac{4}{15}$ (d) $\frac{4}{18}$

SECTION 2

(Mental Maths Concepts)

41. $[90 - \{40 \div (20 \div 4)\}] - 16$
 (a) 60 (b) 66
 (c) 72 (d) 78
42. Which of the following pairs of number do not have common factor other than 1.
 (a) 25, 35 (b) 24, 16
 (c) 11, 5 (d) 48, 9
43. $\left(\frac{5}{6} - \frac{1}{3}\right) + \left(\frac{4}{9} + \frac{2}{3}\right)$
 (a) $\frac{20}{18}$ (b) $\frac{19}{18}$
 (c) $\frac{29}{18}$ (d) $\frac{14}{18}$
44. $\left(\frac{4}{9} + \frac{3}{2}\right) + \left(\frac{5}{6} + \frac{1}{3}\right) =$
 (a) $\frac{21}{5}$ (b) $\frac{28}{9}$
 (c) $\frac{23}{18}$ (d) $\frac{24}{27}$
45. $0.4 \times 0.9 \times 0.7 =$ _____
 (a) 0.152 (b) 0.162
 (c) 0.252 (d) 0.172
46. $0.64 \div 0.8 =$ _____
 (a) 0.8 (b) 8
 (c) 0.07 (d) 0.008
47. Anil bought a car for ₹ 2,50,000. After 5 months he sold it out at a loss of 20% find the selling price of a car.
 (a) 2,00,000 (b) 2,25,000
 (c) 2,15,000 (d) 2,35,000
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 ₹ 600 and pant is ₹ 900. How much did he pay for 2 shirts and 1 pants after discount
 (a) ₹ 1460 (b) ₹ 1230
 (c) ₹ 1740 (d) ₹ 1505
49. What will be the Sixth term as per the given number pattern 35, 48, 61, __, __, __
 (a) 87 (b) 100
 (c) 103 (d) 97
50. Write as percentage $3\frac{4}{25}$
 (a) 316% (b) 160%
 (c) 3.20% (d) 32%
51. 135 centigram = _____ hectogram
 (a) 0.0135 (b) 0.135
 (c) 13.5 (d) 1350

52. 320 decilitre = _____ Decalitre

- (a) 32 (b) 3.2
(c) 0.32 (d) 0.032

53. Find the ratio of :-

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

- (a) $\frac{30}{29}$ (b) $\frac{2}{3}$
(c) $\frac{3}{5}$ (d) $\frac{12}{15}$

54. The average of eight numbers is 3. If sum of first seven numbers is 17 Find the 8th number.

- (a) 7 (b) 9
(c) 11 (d) 4

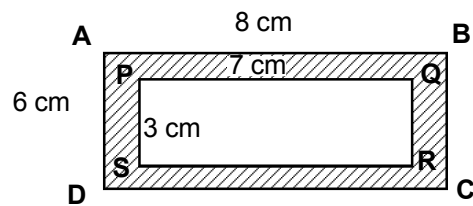
55. If the measures of two angles of a triangle are 30° and 60° . Find the measure of its remaining angle.

- (a) 120° (b) 100°
(c) 80° (d) 90°

56. The measure of an angle is 22.5° . Find the measure of its complementary angle.

- (a) 55.5° (b) 67.5°
(c) 45.5° (d) 47.5°

57.



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

- (a) 27 (b) 18
(c) 9 (d) 15

58. If the length of congruent sides of isosceles triangle is 2.7 cm and perimeter is 10 cm. The length of 3rd side is _____ cm

- (a) 4.6 (b) 3.65
(c) 3.5 (d) 2.7

59. A square has a side of 10 cm. A smaller square of side 7 cm has been cut out of it. The area remaining is _____ sq. cm

- (a) 49 (b) 51
(c) 53 (d) 9

60. If the radius of circle is 3 cm. Find its area if $(\pi = 22/7)$

- (a) $\frac{225}{7}$ (b) $\frac{198}{7}$
(c) 3.05 (d) $\frac{201}{7}$

SECTION 3 (Mental Maths Challenge)

- 61.** Peter has scored 75 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 71 marks. What score did he get for the Maths test?
(a) 78 (b) 69 (c) 60 (d) 51
- 62.** The traffic signals lights at three different road crossing change after every 5 seconds, 7 seconds and 9 seconds respectively. If they all change simulatenously at 9:00 hours, then they will again change simultaneously at _____
(a) 9:03:15 (b) 9:05:15 (c) 9:07:15 (d) 9:09:15
- 63.** Ayush bought some toys at a discount of 25% on the original price. The original price of each toy is ₹ 80. If he makes total saving of ₹ 140, how many toys did he buy?
(a) 2 (b) 3 (c) 7 (d) 9
- 64.** The ratio's of the angles of triangle are 3:5:7. Find the difference between the greatest and the smallest angle of that triangle.
(a) 48 (b) 36 (c) 24 (d) 12
- 65.** $\frac{\sqrt{m}}{7} = 7$ Find the value of m.
(a) 1444 (b) 2500 (c) 2412 (d) 2401

66. If the circular playground with the radius 7 metre is levelled at rate of ₹ 2 per square metre. The total cost of leveling the ground is ₹ _____
- (a) 308 (b) 310 (c) 320 (d) 324
67. $4\frac{2}{3} - \left[5\frac{1}{7} - 2\frac{2}{3}\right] = ?$
- (a) $\frac{52}{21}$ (b) $\frac{46}{21}$ (c) $\frac{46}{7}$ (d) $\frac{52}{3}$
68. Mrs. Swara spent $\frac{2}{7}$ of her money and ₹ 875 is left. How much did she have first
- (a) ₹ 1125 (b) ₹ 1225 (c) ₹ 1025 (d) ₹ 1325
69. Mr. Singh spent 5% of his salary on transport. He spent 7% on his rent. If Mr. Singh earned ₹ 1200, how much he saved in the end?
- (a) ₹ 1048 (b) ₹ 924 (c) ₹ 1056 (d) ₹ 1024
70. A motorcycle gives an average of 40 km per litre. How much petrol is required to travel 800 km.
- (a) 20 l (b) 40 l (c) 60 l (d) 80 l

- 71.** A Roll of paper 10 m long is placed in a fax machine. In every fax transmission received, the fax machine will use 25 cm of paper. What is the length of paper left if it receives 12 fax transmissions?
(a) 2 m (b) 3 m (c) 5 m (d) 7 m
- 72.** $\frac{0.7 \times 0.3 \times 0.9}{0.35 \times 0.6 \times 0.72} = ?$
(a) 2.15 (b) 1.25 (c) 5.12 (d) 5.21
- 73.** 12% of 90 will be how much more than 12% of 27.
(a) 5.76 (b) 5.67 (c) 7.56 (d) 7.65
- 74.** Rahul walked 5 km to his school, he walked 7 m to his friend Jay house. Then he walked 7 km back to his home. How far did he walk?
(a) 19 km (b) 20 km (c) 7 km (d) 12.007 km
- 75.** The smallest number, which when subtracted from the sum of the squares of 13 and 17 gives a perfect square is _____.
(a) 15 (b) 17 (c) 19 (d) 21