


SECTION 1 (Mental Maths Calculation)

1. $(56 \times 4) + (11 \times 9) =$ _____
 (a) 323 (b) 481
 (c) 126 (d) 261
2. $(93 \times 4) + (86 \times 5) =$ _____
 (a) 602 (b) 802
 (c) 702 (d) 804
3. $(41 \times 4) - (31 \times 4) =$ _____
 (a) 50 (b) 30
 (c) 40 (d) 60
4. $(55 \times 3) - (46 \times 2) =$ _____
 (a) 53 (b) 63
 (c) 43 (d) 73
5. $(50\% \text{ of } 120) + (25\% \text{ of } 100) =$

 (a) 85 (b) 65
 (c) 95 (d) 75
6. $(40\% \text{ of } 90) - (30\% \text{ of } 20) =$

 (a) 7 (b) 31
 (c) 30 (d) 42
7. $(\text{half of } 90) + (\frac{1}{7} \text{ of } 77) =$

 (a) 55 (b) 56
 (c) 52 (d) 54
8. $(\text{one third of } 240) - (\frac{1}{5} \text{ of } 180)$
 $=$ _____
 (a) 44 (b) 46
 (c) 54 (d) 64
9. $(10\% \text{ of } 50) + (3\% \text{ of } 270) =$

 (a) 12 (b) 4.6
 (c) 13.1 (d) 81
10. $(20\% \text{ of } 100) + (5\% \text{ of } 80) =$

 (a) 28 (b) 24
 (c) 32 (d) 34
11. $\text{square of } 3 + \text{square of } 9 =$

 (a) 96 (b) 70
 (c) 60 (d) 90
12. $\text{square of } 15 - \text{square } 12 =$

 (a) 81 (b) 61
 (c) 71 (d) 51
13. $(\text{cube of } 4) + (\text{cube of } 7) =$

 (a) 107 (b) 407
 (c) 65 (d) 207



- 14.** (cube of 13) – (cube of 9) = _____
 (a) 1468 (b) 1368
 (c) 1268 (d) 1568
- 15.** $\sqrt{196} \times \sqrt{225} =$ _____
 (a) 501 (b) 120
 (c) 210 (d) 310
- 16.** $\sqrt{324} - \sqrt{256} =$ _____
 (a) 4 (b) 6
 (c) 2 (d) 8
- 17.** $\sqrt{729} + \sqrt{324} =$ _____
 (a) 19 (b) 15
 (c) 12 (d) 45
- 18.** $\sqrt{484} \div \sqrt{4} =$ _____
 (a) 12 (b) 11
 (c) 13 (d) 14
- 19.** The sum of divisors of 36 is _____
 (a) 91 (b) 21
 (c) 56 (d) 68
- 20.** The sum of all prime divisors of 95 is _____
 (a) 26 (b) 28
 (c) 24 (d) 30
- 21.** Select the smallest number obtained from the given operations.
 (a) $1 + \sqrt{625}$ (b) $1 + \sqrt{121}$
 (c) $1 + \sqrt{169}$ (d) $1 + \sqrt{324}$
- 22.** Select the greatest number obtained from following operations.
 (a) $\sqrt{324} + 1$ (b) $\sqrt{196} + 5$
 (c) $\sqrt{169} + 1$ (d) $\sqrt{625} + 1$
- 23.** If 100 is divided by 12, the remainder is _____
 (a) 3 (b) 9
 (c) 4 (d) 2
- 24.** If 240 is divided by 25, the remainder is _____
 (a) 25 (b) 30
 (c) 40 (d) 15
- 25.** If 140 is divided by 12, the remainder is _____
 (a) 4 (b) 12
 (c) 9 (d) 8
- 26.** If 146 is divided by 16 the remainder is _____
 (a) 4 (b) 6
 (c) 2 (d) 8



27. $4213 \times 13 =$ _____
 (a) 54769 (b) 54789
 (c) 54779 (d) 54669
28. $9472 \times 26 =$ _____
 (a) 247672 (b) 24272
 (c) 246272 (d) 24672
29. $4.84 \times 13 =$ _____
 (a) 64.92 (b) 63.92
 (c) 65.92 (d) 62.92
30. $7.9 \times 0.4 =$ _____
 (a) 0.316 (b) 3.16
 (c) 316 (d) 31.6
31. H.C.F of 30, 60, 90 is _____
 (a) 60 (b) 90
 (c) 30 (d) 120
32. L.C.M. of 2, 4 and 8 is _____
 (a) 2 (b) 4
 (c) 32 (d) 8
33. $21.63 + 4.019 + 9.09 =$ _____
 (a) 41.339 (b) 347.39
 (c) 34.739 (d) 47.739
34. $24 - 7.3 + 9.08 + 0.003 =$ _____
 (a) 26.783 (b) 25.783
 (c) 24.783 (d) 22.783
35. $7\frac{3}{8} + 3\frac{1}{4} =$
 (a) $\frac{85}{6}$ (b) $\frac{84}{8}$
 (c) $\frac{85}{8}$ (d) $\frac{55}{8}$
36. $\square - \frac{1}{8} = \frac{15}{8}$
 (a) 2 (b) 3
 (c) 4 (d) 6
37. $(11 \times 66) + (55 \times 9) =$ _____
 (a) 1551 (b) 1221
 (c) 1481 (d) 1331
38. Double of 1467 is _____
 (a) 2924 (b) 2936
 (c) 2914 (d) 2934
39. Half of 5398 is _____
 (a) 2699 (b) 2619
 (c) 1309 (d) 2679
40. The ratio of 50 min to 2 hours is _____
 (a) $\frac{7}{12}$ (b) $\frac{4}{12}$
 (c) $\frac{5}{12}$ (d) $\frac{6}{12}$



SECTION 2
(Mental Maths Concepts)

- 41.** $[80 - \{40 \div (15 \div 3)\}] - 16$
 (a) 56 (b) 81
 (c) 24 (d) 46
- 42.** Which of the following pairs of number do not have common factor other than 1.
 (a) 12, 14 (b) 25, 15
 (c) 13, 39 (d) 25, 26
- 43.** $[3^2 + 2^2 + 9^2] - [\sqrt{441}]$
 (a) 86 (b) 56
 (c) 73 (d) 96
- 44.** $\left(\frac{5}{3} - \frac{1}{9}\right) + \left(\frac{7}{3} + \frac{4}{9}\right) =$
 (a) $\frac{14}{3}$ (b) $\frac{13}{3}$
 (c) $\frac{16}{3}$ (d) $\frac{17}{3}$
- 45.** $9.4 \times 7.9 \times 2.4 =$ _____
 (a) 1782.24 (b) 17.8224
 (c) 178.224 (d) 17822.4
- 46.** $0.56 \div 0.8 =$ _____
 (a) 0.7 (b) 0.6
 (c) 0.8 (d) 0.9
- 47.** Ranjan bought car for sold ₹ 2,80,000 after 5 months he sold it out at a loss of 15% find the selling price of a car.
 (a) 2,38,000 (b) 2,96,000
 (c) 1,66,000 (d) 4,66,000
- 48.** On the purchase of a shirt and pant Ram got a discount of 12% and 10% respectively. If M.R.P. of shirt is ₹ 500 and pant is ₹ 900. How much he was to pay for 3 shirt and 3 pant after discount
 (a) ₹ 3650 (b) ₹ 3450
 (c) ₹ 3750 (d) ₹ 3350
- 49.** What will be the Sixth term in as per given number pattern 10, 19, 28, __, __, __
 (a) 46 (b) 55
 (c) 37 (d) 50
- 50.** Write as percentage $6\frac{2}{5}$
 (a) 640% (b) 310%
 (c) 320% (d) 420%
- 51.** 370 centigram = ___ hectogram
 (a) 3.70 (b) 37.0
 (c) 0.037 (d) 0.37

52. 863 decilitre = _____ Decalitre

- (a) 86.3 (b) 0.863
(c) 8.63 (d) 0.0863

53. Find the ratio of :-

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

- (a) $\frac{3}{2}$ (b) $\frac{4}{3}$
(c) $\frac{1}{3}$ (d) $\frac{2}{3}$

54. The average of Eight numbers is 16. If sum of first seven numbers is 120 find the eighth number.

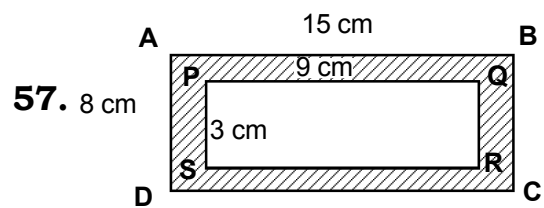
- (a) 8 (b) 2
(c) 6 (d) 5

55. If the measure of two angles of triangle is 42° and 48° resp. Find the measure of remaining angle.

- (a) 60° (b) 90°
(c) 70° (d) 85°

56. The measure of an angle is 29.5° . Find the measure of its complementary angle.

- (a) 60.5° (b) 51.5°
(c) 160.5° (d) 12.5°



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

- (a) 93 (b) 96
(c) 94 (d) 97

58. If the length of congruent sides of isosceles triangle is 2.4 cm and perimeter is 16.4 cm. The length of 3rd side is _____ cm

- (a) 2.6 (b) 11.6
(c) 10.6 (d) 16.1

59. A square has a side of 15 cm. A smaller square of side 14 cm has been cut out of it. The area remaining is _____ sq. cm

- (a) 39 (b) 49
(c) 29 (d) 59

60. If the radius of circle is 21 cm. Find it area if $(\pi = 22/7)$

- (a) 1386 sq cm (b) 1886 sq cm
(c) 1286 sq cm (d) 2386 sq cm

SECTION 3 (Mental Maths Challenge)

61. Parth walked $\frac{3}{2}$ km to his school, he walked 200m to his friend Suraj's house. Then he walked $\frac{1}{2}$ km back to his home. How far did he walk?
- (a) $\frac{11}{5}$ km (b) $\frac{13}{5}$ km (c) $\frac{14}{5}$ km (d) $\frac{14}{7}$ km
62. A dealer wishes to make a profit of 20% by selling an article. At what price should he sell the article, if the cost price is ₹ 950 ?
- (a) ₹ 1240 (b) ₹ 1140 (c) ₹ 3140 (d) ₹ 2140
63. At an end of term party, 4 chocolate cakes are shared equally between 8 children. How much did each child get.
- (a) $\frac{2}{5}$ (b) $\frac{1}{4}$ (c) $\frac{3}{2}$ (d) $\frac{1}{2}$
64. 5% of 50.5 will be how much more than 5% of 50.05.
- (a) 2.0 (b) 0.2 (c) 0.02 (d) 0.002
65. If 70% of the students in a school are boys and the girls number is 840. How many boys are there?
- (a) 1960 (b) 1760 (c) 1860 (d) 2060

- 66.** Karim bought some toys at a discount of 20% on the original price. The original price of each toy is ₹ 700. If he makes total saving of ₹ 7000, How many toys did he buy ?
(a) 50 (b) 60 (c) 30 (d) 40
- 67.** The traffic signals lights at three different road crossing change after every 15 seconds, 45 seconds and 60 seconds respectively. If they all change simulatenously at 8.30 hours, then they will again change simultaneously at _____
(a) 8.36 hrs (b) 8.34 hrs (c) 8.33 hrs (d) 8.26 hrs
- 68.** A motercycle gives an average of 15 km per litre. How much petrol is required to travel 900 km.
(a) 15 l (b) 10 l (c) 20 l (d) 60 l
- 69.** The smallest number, which when subtracted from the sum of the squares of 13 and 14 gives a perfect square is _____.
(a) 3 (b) 4 (c) 2 (d) 10
- 70.** A dinner of ₹ 5600 was shared by 8 people. If Mr. Shah paid ₹ 60 more than each of other people, how much did Mr. Shah pay?
(a) ₹ 752.5 (b) ₹ 385 (c) ₹ 800 (d) ₹ 750.5



- 71.** During a sport day, there were 225 more boys than girls and there were 150 fewer teachers than girls. How many people were there altogether if there were 60 teachers?
- (a) 705 (b) 605 (c) 905 (d) 805
- 72.** The perimeter of rectangle is 96 meter and length is 3 times of breadth. Find the area of Rectangle.
- (a) 432 sqcm (b) 43200 sqcm (c) 42300 sqcm (d) 43300 sqcm
- 73.** $[33.20 - \{19.30 - (15.14 - 11.62)\}]$
- (a) 16.44 (b) 15.42 (c) 16.42 (d) 17.42
- 74.** Which of the following number is exactly divisible by four.
- (a) 30126 (b) 9886 (c) 3648 (d) 2918
- 75.** $4\frac{3}{4} - \left[\frac{3}{8} - \left(3\frac{1}{2} - \frac{1}{2} \right) \right] = ?$
- (a) $\frac{59}{8}$ (b) $\frac{17}{8}$ (c) $\frac{8}{17}$ (d) $\frac{8}{59}$



MENTAL MATHS COMPETITION®

Date : _____

Name of Student in Full (IN CAPITAL LETTERS) :-

Name

Father's Name

Surname

School Name _____

Mobile No. _____

Std. _____ Centre _____

INSTRUCTIONS

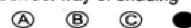
1. Use HB Pencil only on this sheet
2. Darken the ovals fully.
3. Erase completely to change responses.
4. Do not make any stray mark on this sheet.

For Office Use Only

Incorrect way of shading



Correct way of shading



ANSWERS

Section - I

- | | |
|-------------|-------------|
| 1. A B C D | 21. A B C D |
| 2. A B C D | 22. A B C D |
| 3. A B C D | 23. A B C D |
| 4. A B C D | 24. A B C D |
| 5. A B C D | 25. A B C D |
| 6. A B C D | 26. A B C D |
| 7. A B C D | 27. A B C D |
| 8. A B C D | 28. A B C D |
| 9. A B C D | 29. A B C D |
| 10. A B C D | 30. A B C D |
| 11. A B C D | 31. A B C D |
| 12. A B C D | 32. A B C D |
| 13. A B C D | 33. A B C D |
| 14. A B C D | 34. A B C D |
| 15. A B C D | 35. A B C D |
| 16. A B C D | 36. A B C D |
| 17. A B C D | 37. A B C D |
| 18. A B C D | 38. A B C D |
| 19. A B C D | 39. A B C D |
| 20. A B C D | 40. A B C D |

Section - II

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|-------------|
| 41. A B C D |
| 42. A B C D |
| 43. A B C D |
| 44. A B C D |
| 45. A B C D |
| 46. A B C D |
| 47. A B C D |
| 48. A B C D |
| 49. A B C D |
| 50. A B C D |
| 51. A B C D |
| 52. A B C D |
| 53. A B C D |
| 54. A B C D |
| 55. A B C D |
| 56. A B C D |
| 57. A B C D |
| 58. A B C D |
| 59. A B C D |
| 60. A B C D |

Section - III

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|-------------|
| 61. A B C D |
| 62. A B C D |
| 63. A B C D |
| 64. A B C D |
| 65. A B C D |
| 66. A B C D |
| 67. A B C D |
| 68. A B C D |
| 69. A B C D |
| 70. A B C D |
| 71. A B C D |
| 72. A B C D |
| 73. A B C D |
| 74. A B C D |
| 75. A B C D |