

**SECTION 1 (Mental Maths Calculation)**

1. $(36 \times 12) + (34 \times 46) =$ _____
(a) 1996 (b) 1986
(c) 1976 (d) 1486
2. $(76 \times 13) - (14 \times 29) =$ _____
(a) 451 (b) 510
(c) 582 (d) 851
3. $(12 \times 13) + (7 \times 6) + (15 \times 17) =$

(a) 443 (b) 453
(c) 463 (d) 473
4. $(50 \times 4) + (21 \times 6) - (33 \times 7) =$

(a) 66 (b) 45
(c) 85 (d) 95
5. $(80 \times 5) - (30 \times 6) + (14 \times 3) =$

(a) 272 (b) 262
(c) 242 (d) 282
6. $(30\% \text{ of } 369) + (20\% \text{ of } 520) =$

(a) 214.7 (b) 164.7
(c) 114.7 (d) 264.7
7. $(50\% \text{ of } 240) - (25\% \text{ of } 80) =$

(a) 120 (b) 130
(c) 100 (d) 140
8. $(50\% \text{ of } 174) + (25\% \text{ of } 140) -$
 $(20\% \text{ of } 180) =$ _____
(a) 76 (b) 86
(c) 46 (d) 96
9. $(\text{half of } 386) - (\text{one third}$
 $\text{of } 450) =$ _____
(a) 33 (b) 53
(c) 43 (d) 73
10. $(\text{one third of } 390) - (\text{half of}$
 $176) =$ _____
(a) 42 (b) 52
(c) 72 (d) 62
11. square of 36 + square 14 =

(a) 1592 (b) 2492
(c) 1692 (d) 1492
12. square of 75 – square 35 =

(a) 4300 (b) 4400
(c) 4700 (d) 4200
13. square of 20 + square of 25
– square of 15 = _____
(a) 800 (b) 825
(c) 200 (d) 425



- 14.** square of 15 – square root of 625 = _____
(a) 200 (b) 300
(c) 250 (d) 350
- 15.** square of 14 + cube root of 216 = _____
(a) 201 (b) 702
(c) 202 (d) 102
- 16.** square root of 121 + cube root of 64 = _____
(a) 16 (b) 15
(c) 17 (d) 18
- 17.** cube of 9 + square root 8100 = _____
(a) 319 (b) 719
(c) 219 (d) 819
- 18.** Sum of all the divisor of 35 = _____
(a) 58 (b) 68
(c) 48 (d) 38
- 19.** Sum of all the divisor of 74
(a) 114 (b) 39
(c) 2 (d) 75
- 20.** Sum of all prime divisors of 1155
(a) 27 (b) 26
(c) 28 (d) 29
- 21.** Select the greatest number from the given operations.
(a) 94×2 (b) $420 - 370$
(c) $94 + 12$ (d) 15×16
- 22.** Select the smallest number from the given operations.
(a) 15×3 (b) $140 - 126$
(c) $108 \div 3$ (d) 3×7
- 23.** If 389 is divided by 2, the remainder is _____
(a) 1 (b) 3
(c) 5 (d) 4
- 24.** If 683 is divided by 12, the remainder is _____
(a) 12 (b) 13
(c) 11 (d) 14
- 25.** If 2020 is divided by 5, the remainder is _____
(a) 5 (b) 1
(c) 404 (d) 0
- 26.** If 1443 is divided by 26, the remainder is _____
(a) 12 (b) 13
(c) 16 (d) 17



27. $4231 \times 22 =$ _____
(a) 93082 (b) 94082
(c) 93062 (d) 92082
28. $1017 \times 49 =$ _____
(a) 29833 (b) 49833
(c) 89833 (d) 7933
29. $4.95 \times 1.3 =$ _____
(a) 6.435 (b) 5.435
(c) 7.435 (d) 3.435
30. $3.25 \times 1.6 =$ _____
(a) 6.3 (b) 8.50
(c) 5.2 (d) 5.12
31. H.C.F. of 30, 60, 90 is _____
(a) 30 (b) 15
(c) 20 (d) 45
32. L.C.M. of 25, 35 and 45 is _____
(a) 1585 (b) 1565
(c) 1545 (d) 1575
33. $5 - 2.394 =$ _____
(a) 3.216 (b) 2.606
(c) 2.116 (d) 1.096
34. $16.45 + 12.36 - 13.21 =$ _____
(a) 15.6 (b) 17.6
(c) 14.6 (d) 18.6
35. $5\frac{1}{4} + 7\frac{1}{5} =$
(a) $11\frac{7}{20}$ (b) $12\frac{9}{20}$
(c) $12\frac{8}{20}$ (d) $11\frac{20}{7}$
36. $- 1\frac{1}{4} = 1\frac{1}{12}$
(a) $2\frac{1}{3}$ (b) $3\frac{1}{3}$
(c) $1\frac{1}{3}$ (d) $4\frac{1}{3}$
37. $(3.11 \times 0.3) + (6.5 \times 6.05) =$ _____
(a) 39.698 (b) 3.258
(c) 40.258 (d) 4.0258
38. Double of 3086 = _____
(a) 6182 (b) 6172
(c) 6072 (d) 6174
39. Half of 3038 = _____
(a) 1719 (b) 1819
(c) 519 (d) 1519
40. The ratio of 40 min to 40 hour is _____
(a) 1:16 (b) 1:30
(c) 1:60 (d) 1:10



SECTION 2
(Mental Maths Concepts)

41. $155 \times 12 \div (3 \times 2) =$ _____

- (a) 310 (b) 116
(c) 250 (d) 1860

42. $95 - (32 - 137) =$ _____

- (a) 240 (b) 210
(c) 200 (d) 230

43. $-7 + \square = -12$

- (a) -5 (b) 5
(c) 3 (d) 18

44. $(204 - 319) \div 23 =$ _____

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

45. $(14) \times (2) + (-3) \times (2) \div (-2)$

- (a) 32 (b) 25
(c) 24 (d) 31

46. $\frac{216}{256} = \square$

- (a) $\frac{1}{7}$ (b) $\frac{27}{32}$
(c) $\frac{32}{8}$ (d) $\frac{6}{8}$

47. Find ninth term in the given series.

49, 64, 81, 100, _____, _____, _____

- (a) 169 (b) 196
(c) 144 (d) 225

48. $\frac{4}{5} \div \frac{6}{25} \times \frac{5}{18} = \square$

- (a) $\frac{25}{27}$ (b) $\frac{125}{27}$
(c) $\frac{27}{25}$ (d) $\frac{27}{125}$

49. $9 \times 19 + 9 \times 9 =$ _____

- (a) 352 (b) 252
(c) 752 (d) 152

50. $130 \times 10 + 125 \times 11 =$ _____

- (a) 2575 (b) 2475
(c) 2675 (d) 2775

51. $80.05 \div 0.9 =$ _____

- (a) 80.94 (b) 1.29
(c) 8.894 (d) 88.94

52. $781 \div 1.1 =$ _____

- (a) 710 (b) 700
(c) 701 (d) 708



53. $47:94 = 25: \underline{\hspace{2cm}}$

- (a) 25 (b) 150
(c) 50 (d) 5.0

54. If 5 bags of Soyabean seeds cost ₹ 6250. Find the cost of 3 such bags.

- (a) 3750 (b) 1250
(c) 7750 (d) 650

55. The perimeter of triangle is 65 cm, if one of its side is 15 cm. If the other two side are equal find their lengths.

- (a) 25 cm (b) 20 cm
(c) 35 cm (d) 40 cm

56. $\frac{2y}{3} = \frac{8}{3}$ then $y = \square$

- (a) 0.4 (b) 3.5
(c) 4 (d) 4.2

57. The ratio of 1 meter : 55 cm is $\underline{\hspace{2cm}}$

- (a) $\frac{2}{11}$ (b) $\frac{11}{20}$
(c) $\frac{20}{19}$ (d) $\frac{20}{11}$

58. The ratio of ₹ 1:50 paise = $\underline{\hspace{2cm}}$

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

59. $3t = 8t - 40$, $t = \underline{\hspace{2cm}}$

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

60. Find the number whose 2% is 12.

- (a) 400 (b) 600
(c) 700 (d) 300

SECTION 3 (Mental Maths Challenge)

61. A square & a rectangular plot of land have same perimeter. If the square is of side 60 cm & rectangle is of length 70 cm, then the area of the rectangle is
(a) 3500 cm² (b) 1600 cm² (c) 2500 cm² (d) 3600 cm²
62. A boy is 15 yrs younger than his father. Two years ago, the boy's age was one-sixth of the age of his father, then present age of boy is
(a) 4 yrs (b) 5 yrs (c) 8 yrs (d) 10 yrs
63. In a two digit number, the unit place digit is 2. If the digits are interchanged, the new number formed is $\frac{4}{7}$ times the old number. What is the number?
(a) 36 (b) 24 (c) 42 (d) 63
64. The speed of car is $56\frac{3}{4}$ km per hour. What is the distance travelled in $5\frac{3}{4}$ hrs ?
(a) $\frac{5221}{16}$ km (b) $\frac{2512}{16}$ km (c) $\frac{1223}{16}$ km (d) $\frac{5122}{16}$ km
65. A reduction of 10% in the price of sugar enables Mrs. Soni to buy an extra 5 kg of it for ₹ 500. What is the reduced price per kg?
(a) ₹15 per kg (b) ₹10 per kg (c) ₹ 25 per kg (d) ₹20 per kg

66. This year, your brother Prakash will be 2yrs from being twice as old as your sister Jaya. The sum of Prakash's age & three times Jaya's age is 68. How old is Jaya?
(a) 12 yrs (b) 14 yrs (c) 13 yrs (d) 15 yrs
67. Which of the following expression is correct?
(a) $3 \div 3 + 3 \times 3 = 10$ (b) $3 + 3 \div 3 \times 3 = 10$
(c) $3 \times 3 \div 3 + 3 = 10$ (d) $3 - 3 \times 3 + 3 = 10$
68. A swimming pool is 40 m long & 20 wide. How many Kilolitres of water must be pumped into it so as to raise the level of water by 5.5 m?
(a) 0.44 kl (b) 44.00 kl (c) 4.400 kl (d) 4400 kl
69. If 95.5% of the students are present in the school & number of absent students is 45, find the total number of students in the school.
(a) 1400 (b) 1300 (c) 1000 (d) 1200
70. The cost of a wall clock is ₹ 250. Find the selling price if the gain is 13%.
(a) ₹ 334 (b) ₹ 282.50 (c) ₹ 283 (d) ₹ 275



71. Simplify:- $3\frac{1}{2} - \left\{ \frac{2}{5} \text{ of } \frac{5}{4} + \left(\frac{8}{3} \div 1\frac{3}{5} \right) \right\}$
- (a) $1\frac{1}{3}$ (b) $1\frac{2}{3}$ (c) $3\frac{1}{1}$ (d) $3\frac{1}{3}$
72. In an office 12 clerks get a salary of ₹ 7200 each & 5 officers get a salary of ₹ 7500 each. Find the average salary of the employee in the office.
- (a) ₹ 34.94 (b) ₹ 7288.23 (c) ₹ 9495 (d) ₹ 9425.23
73. If two complementary angles are in the ratio 3:6. Find the smaller one.
- (a) 60° (b) 35° (c) 30° (d) 45°
74. The perimeter of a rectangular field is 250 m. If the length is 30 m, find its area.
- (a) 8520 sqm (b) 28.5 sqm (c) 95 sqm (d) 2850 sqm
75. There were only two candidates in an election. One got 72% votes elected by a margin of 220 votes. The total number votes were
- (a) 450 (b) 500 (c) 600 (d) 650



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

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Correct way of shading

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ANSWERS

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