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## MENTAL MATHS COMPETITION

Std. - 8

Total Marks : 200

Time : 90 min

Total No of questions: 100

### Topics Included.

- (1) Q. No. 1 to 50 are based on basic. Calculation questions related to Addition, Subtraction, multiplication and division, doubling and halving.
- (2) Student should know multiplication tables from 2 to 15.
- (3) Application of BODMAS.
- (4) Mixed operations (MULTIPLICATION, DIVISION)
- (5) L.C.M & H.C.F.
- (6) Fractions, Decimals, integers (Add, Subtract, Multiply, Divide)
- (7) Calculation of percentage.
- (8) Perimeter and angles of triangle.
- (9) Simple equation.
- (10) Ratio
- (11) Square and square root, Cube of a given number from 1 to 10.
- (12) Test of divisibility: 2, 3, 4, 5, 6, 8, 9, 11
- (13) Study and complete given series of a number.

### Instructions for the Competition

1. Time :  $1\frac{1}{2}$ hr
2. Students can use HB Pencil for marking answers in OMR sheet.
3. Result of the Competition will be declared on 16<sup>th</sup> November, 2011.  
Results will be conveyed to parents by SMS and displayed on our website.
4. Every participant will be given certificate of participation.
5. Winners [ rank 1 to rank 10 ] from each std. will be feliciated with Trophies or Medals in a specially arranged Award Function.



- (1)  $225 \times 15$   
(A) 3255                      (B) 3375                      (C) 3735                      (D) 3275
- (2)  $981 \times 60$   
(A) 56680                      (B) 57860                      (C) 56860                      (D) 58860
- (3)  $210 \times 32$   
(A) 6620                      (B) 6720                      (C) 3210                      (D) 6270
- (4)  $450 \times 81$   
(A) 36540                      (B) 36440                      (C) 36450                      (D) 36920
- (5)  $216 \times 17$   
(A) 3672                      (B) 4672                      (C) 5672                      (D) 3762
- (6)  $2756 \div 13$   
(A) 221                      (B) 192                      (C) 202                      (D) 212
- (7)  $4472 \div 13$   
(A) 341                      (B) 342                      (C) 343                      (D) 344
- (8)  $4488 \div 11$   
(A) 418                      (B) 48                      (C) 408                      (D) 480
- (9)  $17358 \div 22$   
(A) 789                      (B) 798                      (C) 790                      (D) 709
- (10)  $8664 \div 19$   
(A) 496                      (B) 466                      (C) 456                      (D) 476
- (11)  $3 \times 2 \times 5 \times 7$   
(A) 360                      (B) 210                      (C) 240                      (D) 70
- (12)  $450 \div (10 \div 5) =$   
(A) 100                      (B) 50                      (C) 9                      (D) 225
- (13)  $103 + 91 \times 2 + 8 =$   
(A) 498                      (B) 1013                      (C) 396                      (D) 293



- (14)  $210 \div (5 \times 6) =$   
(A) 3                      (B) 175                      (C) 252                      (D) 7
- (15)  $94 - (61 - 23) =$   
(A) 20                      (B) 10                      (C) 56                      (D) 40
- (16)  $-2 + \square = -9$   
(A) 7                      (B) -7                      (C) 11                      (D) -11
- (17)  $-8 - \square = -16$   
(A) 16                      (B) 0                      (C) -8                      (D) 8
- (18)  $-81 \div \square = -9$   
(A) 27                      (B) 9                      (C) -4                      (D) -2
- (19)  $-56 \div \square = 14$   
(A) 2                      (B) 4                      (C) -4                      (D) -2
- (20)  $35 \div \square = -7$   
(A) -5                      (B) 5                      (C) 7                      (D) -7
- (21)  $9 - \square = 17$   
(A) 8                      (B) -8                      (C) 9                      (D) -9
- (22)  $(-3) + (-2) - (-8) = \square$   
(A) 3                      (B) -3                      (C) 9                      (D) -10
- (23)  $(-90) \div (-6) = \square$   
(A) 5                      (B) 15                      (C) -15                      (D) -5
- (24)  $[(15) \times (2) + (-4) \times (5)] \div (-5)$   
(A) 4                      (B) -4                      (C) 2                      (D) -2
- (25)  $\frac{63}{-21} = \square$   
(A) 3                      (B) -3                      (C) 5                      (D) 4
- (26)  $5 + [(-3)] \times 6 = \square$   
(A) 13                      (B) 12                      (C) -12                      (D) -13



- (27)  $5 + [(-3) + 6] =$   
(A) -81                      (B) 8                      (C) 14                      (D) -14
- (28)  $(-5) \times (-13) + (-5) \times (10) =$   
(A) 15                      (B) -15                      (C) 68                      (D) -68
- (29)  $-16 + [4 - 3] =$   
(A) -17                      (B) 17                      (C) -15                      (D) 15
- (30)  $4 \times 10 + 4(-12) =$   
(A) 40                      (B) 44                      (C) 8                      (D) -8
- (31) 50 percent of 84 =  
(A) 84                      (B) 44                      (C) 42                      (D) 48
- (32) 60 percent of 175 =  
(A) 150                      (B) 17.5                      (C) 105                      (D) 225
- (33) 15% of 540 =  
(A) 18                      (B) 81                      (C) 27                      (D) 54
- (34) 90% of 540 =  
(A) 60                      (B) 468                      (C) 486                      (D) 420
- (35) 25% of 600 =  
(A) 300                      (B) 250                      (C) 150                      (D) 120
- (36)  $72^2 = \square$   
(A) 5184                      (B) 5814                      (C) 5186                      (D) 5444
- (37)  $39^2 = \square$   
(A) 1531                      (B) 1541                      (C) 1561                      (D) 1521
- (38) Square root of 361 is  $\square$   
(A) 15                      (B) 16                      (C) 18                      (D) 19
- (39)  $95^2 = \square$   
(A) 9055                      (B) 9025                      (C) 9035                      (D) 9045



- (40)  $56^2 = \square$   
(A) 2136            (B) 3136            (C) 1136            (D) 3166
- (41) Find the number exactly divisible by 8  
(A) 1458            (B) 4480            (C) 1682            (D) 1924
- (42) Find the number exactly divisible by 4  
(A) 1436            (B) 2450            (C) 3661            (D) 4249
- (43) Find the number exactly divisible by 9  
(A) 4559            (B) 1445            (C) 7290            (D) 3360
- (44) Find the number exactly divisible by 6  
(A) 4226            (B) 4225            (C) 4227            (D) 4446
- (45) What number comes next in given series.  
101, 97, 91, 83,  $\square$   
(A) 67            (B) 77            (C) 73            (D) 75
- (46) What number comes next in given series.  
6, 11, 21, 36,  $\square$   
(A) 56            (B) 50            (C) 54            (D) 53
- (47)  $\frac{65}{104} = \square$   
(A)  $\frac{4}{7}$             (B)  $\frac{8}{5}$             (C)  $\frac{13}{9}$             (D)  $\frac{5}{8}$
- (48)  $\frac{90}{126} = \square$   
(A)  $\frac{7}{5}$             (B)  $\frac{3}{5}$             (C)  $\frac{9}{5}$             (D)  $\frac{5}{7}$
- (49)  $\frac{288}{360} = \square$   
(A)  $\frac{6}{8}$             (B)  $\frac{5}{4}$             (C)  $\frac{4}{5}$             (D)  $\frac{3}{7}$



(50)  $\frac{6}{7} \div \frac{35}{42} = \square$

(A)  $\frac{6}{7}$

(B)  $\frac{7}{5}$

(C)  $\frac{5}{7}$

(D)  $\frac{36}{35}$

(51)  $\frac{4}{5} \div \frac{6}{25} \times \frac{8}{15} = \square$

(A)  $\frac{9}{16}$

(B)  $\frac{16}{9}$

(C)  $\frac{4}{3}$

(D)  $\frac{3}{4}$

(52)  $\frac{2}{3} \div \frac{8}{15} = \square$

(A)  $\frac{5}{4}$

(B)  $\frac{4}{5}$

(C)  $\frac{10}{8}$

(D)  $\frac{2}{7}$

(53)  $\frac{775}{1000} = \square$

(A) 7.75

(B) 0.775

(C) 77.5

(D) 775000

(54) If two angles of triangle are  $60^\circ$  and  $50^\circ$  then measure of remaining angle is \_\_\_\_\_

(A) 50

(B) 60

(C) 70

(D) 80

(55)  $2 \times 3.14 \times 2 = \square$

(A) 1.256

(B) 12.56

(C) 125

(D) 1256

(56) L.C.M. of 24, 20 is  $\square$

(A) 120

(B) 24

(C) 20

(D) 80

(57) H.C.F. of 15, 20 is  $\square$

(A) 15

(B) 20

(C) 5

(D) 4

(58) L.C.M. of 28, 72 is  $\square$

(A) 502

(B) 504

(C) 404

(D) 402

(59) H.C.F. of 65, 39 is  $\square$

(A) 5

(B) 13

(C) 3

(D) 11



- (60) L.C.M. of 6, 8 is   
(A) 46 (B) 48 (C) 50 (D) 24
- (61)  $15 \times 3 + 15 \times 7 =$    
(A) 130 (B) 150 (C) 160 (D) 140
- (62)  $9 \times 38 + 9 \times 12 =$    
(A) 350 (B) 450 (C) 400 (D) 500
- (63)  $16 \times 81 + 34 \times 81 =$    
(A) 4050 (B) 4020 (C) 4030 (D) 4040
- (64)  $125 \times 10 + 125 \times 90 =$    
(A) 11500 (B) 12500 (C) 13500 (D) 14500
- (65)  $25 \times (25 + 15) =$    
(A) 1030 (B) 1050 (C) 1000 (D) 1040
- (66)  $372.42 \div 18 =$    
(A) 21.57 (B) 20.60 (C) 20.54 (D) 20.99
- (67)  $9.148 \times 100 =$    
(A) 91.48 (B) 914.8 (C) 9148 (D) 0.9148
- (68)  $13.094 \times 100 =$    
(A) 0.1309 (B) 1.309 (C) 130.9 (D) 1309.4
- (69)  $10.35 \div 1.5 =$    
(A) 6.5 (B) 6.7 (C) 6.9 (D) 6.4
- (70)  $759.0 \div 1.1 =$    
(A) 660 (B) 690 (C) 630 (D) 670
- (71)  $77 : 99 =$   : 9  
(A) 8 (B) 7 (C) 6 (D) 5
- (72)  $35 : 70 = 7 :$    
(A) 9 (B) 8 (C) 7 (D) 14



- (73) 1 meter : 60 cm =   
(A) 5:4 (B) 5:3 (C) 3:5 (D) 3:4
- (74) ₹ 2 : 75 paise =   
(A) 8:3 (B) 3:8 (C) 5:3 (D) 3:5
- (75) 90 cm : 1.5 m =   
(A) 3:5 (B) 5:3 (C) 3:4 (D) 4:3
- (76) If 12 tops cost ₹ 60 find the cost of 17 such tops.  
(A) 75 (B) 65 (C) 85 (D) 95
- (77) Three bags of soyabean seeds cost ₹ 2250 find the cost of 7 such bags.  
(A) 5200 (B) 5250 (C) 5300 (D) 5270
- (78) Find the value of x if  $8 : 12 = 2 : x$   
(A) 2 (B) 3 (C) 4 (D) 6
- (79) Find the values of x if  $5 : x = 20 : 24$   
(A) 6 (B) 5 (C) 4 (D) 3
- (80) Find the value of P if  $P : 100 = 300 : 30$   
(A) 60 (B) 500 (C) 1000 (D) 40
- (81) Find the perimeter of triangle whose sides are 4.8m, 10.2m and 5.3m.  
(A) 20.2 m (B) 20.4 m (C) 20.3m (D) 20.4 m
- (82) The perimeter of triangle is 55cm if one of its side is 15cm. If the other two sides are equal find their lengths.  
(A) 25 m (B) 20 m (C) 30 m (D) 28 m
- (83)  $2 = \frac{10}{x}$ , then  $x =$    
(A) 3 (B) 4 (C) 5 (D) 6
- (84)  $5y = 16$  [8] then  $y =$    
(A) 3.2 (B) 32 (C) 8 (D) 80





(85)  $3t = 7t - 12$

- (A) 0                      (B) 1                      (C) 2                      (D) 3

(86)  $5 = \frac{x}{35}$  then  $x = \square$

- (A) 125                      (B) 175                      (C) 155                      (D) 170

(87)  $2P = P + 32$  then  $P = \square$

- (A) 32                      (B) 16                      (C) - 32                      (D) 30

(88)  $25 = t + 16$  then  $t = \square$

- (A) 8                      (B) 9                      (C) 7                      (D) 6

(89)  $t^2 = 144$  then  $t = \square$

- (A) 11                      (B) 12                      (C) 13                      (D) 14

(90)  $3x = 81$  then  $x = \square$

- (A) 25                      (B) 26                      (C) 27                      (D) 28

(91)  $\frac{2}{3} - \frac{1}{4} = \square$

- (A)  $\frac{5}{12}$                       (B)  $\frac{6}{12}$                       (C)  $\frac{4}{12}$                       (D)  $\frac{7}{12}$

(92)  $\frac{y}{5} - \frac{6}{15}$  then  $y =$

- (A) 2                      (B) 7                      (C) 8                      (D) 9

(93)  $\frac{3}{4} + \frac{2}{3} = \square$

- (A)  $\frac{17}{12}$                       (B)  $\frac{15}{12}$                       (C)  $\frac{16}{12}$                       (D)  $\frac{18}{12}$

(94)  $\frac{19}{6} + \frac{1}{18} = \square$

- (A)  $\frac{58}{18}$                       (B)  $\frac{57}{18}$                       (C)  $\frac{59}{18}$                       (D)  $\frac{60}{18}$



(95)  $\frac{3}{8} \times \frac{4}{18} = \square$

- (A)  $\frac{1}{24}$                       (B)  $\frac{2}{9}$                       (C)  $\frac{1}{12}$                       (D)  $\frac{1}{18}$

(96)  $\frac{30}{7} \div \frac{10}{21} = \square$

- (A) 8                      (B) 9                      (C) 7                      (D) 6

(97)  $\frac{7}{5} \div \frac{28}{25} = \square$

- (A) 1.25                      (B) 2.5                      (C) 4.5                      (D) 2.75

(98)  $\frac{650}{19} \times \frac{57}{13} = \square$

- (A) 130                      (B) 120                      (C) 150                      (D) 140

(99) cube of 10 - cube of 5 =  $\square$

- (A) 5                      (B) 125                      (C) 875                      (D) 225

(100) cube of 7 + cube of 3 =  $\square$

- (A) 10                      (B) 1000                      (C) 270                      (D) 370

### Answers

1	B	16	B	31	C	46	A	61	B	76	C	91	A
2	D	17	D	32	C	47	D	62	B	77	B	92	A
3	B	18	B	33	B	48	D	63	A	78	B	93	A
4	C	19	C	34	C	49	C	64	B	79	A	94	A
5	A	20	A	35	C	50	D	65	C	80	C	95	C
6	D	21	B	36	A	51	B	66	B	81	C	96	B
7	D	22	A	37	D	52	A	67	B	82	B	97	A
8	C	23	B	38	D	53	B	68	D	83	C	98	C
9	A	24	D	39	B	54	C	69	C	84	B	99	C
10	C	25	B	40	B	55	B	70	B	85	D	100	D
11	B	26	D	41	B	56	A	71	B	86	B		
12	D	27	B	42	A	57	C	72	D	87	A		
13	D	28	A	43	C	58	B	73	B	88	B		
14	D	29	C	44	D	59	B	74	A	89	B		
15	C	30	D	45	C	60	D	75	A	90	C		