

# Mental Maths Competition<sup>®</sup>

*Organized by*

**Global Maths Science Education**<sup>®</sup>

*In Association with*

**Math Vision Pte Ltd., Singapore.**

**MOCK TEST**

**Std. 3**

## Instructions for the Competition

**Total Marks : 200**

**Total No of questions: 75**

1. Time : 1½hr
2. Students can use HB Pencil for marking answers in OMR sheet.
3. Questions are arranged according to 3 difficulty level to provide pupils with optimum exposure to Mental Maths.
4. [Section 1] In this section, there are 40 questions help to build calculation skills. Each question carries 2 marks.
5. [Section 2] It is related with 20 questions to test fundamental concept covered in topic listed below. Each question carries 3 marks.
6. [Section 3] Here questions are challenging & required high order thinking skills. Each question carry 4 marks. Students are requested to practice extra question given alongwith the Mock paper. Any 15 questions can be asked from given question format in mock paper & extra practice questions.

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**SECTION 1 (Mental Maths Calculation)**

1. 
$$\begin{array}{r} 345 \\ + 162 \\ \hline \end{array}$$

- (a) 407 (b) 497  
(c) 507 (d) 607

2. 
$$\begin{array}{r} 709 \\ - 363 \\ \hline \end{array}$$

- (a) 247 (b) 346  
(c) 347 (d) 246

3. 
$$\begin{array}{r} 526 \\ + 339 \\ \hline \end{array}$$

- (a) 865 (b) 853  
(c) 843 (d) 855

4. 
$$\begin{array}{r} 956 \\ - 388 \\ \hline \end{array}$$

- (a) 638 (b) 468  
(c) 578 (d) 568

5.  $34 + \square = 62$

- (a) 18 (b) 38  
(c) 28 (d) 26

6.  $28 - \square = 11$

- (a) 17 (b) 37  
(c) 27 (d) 19

7.  $\square + 11 = 23$

- (a) 32 (b) 22  
(c) 12 (d) 34

8.  $\square - 17 = 30$

- (a) 57 (b) 47  
(c) 27 (d) 33

9. What is next

85, 78, 71,  $\square$

- (a) 65 (b) 68  
(c) 55 (d) 64

10. What is next number

49, 58, 67,  $\square$

- (a) 76 (b) 75  
(c) 56 (d) 73

11. Find the missing digit in a box.

$$\begin{array}{r} 9 \square 6 \\ - 388 \\ \hline 578 \end{array}$$

- (a) 9 (b) 1  
(c) 2 (d) 6

12. 
$$\begin{array}{r} 52\square \\ + 349 \\ \hline 873 \end{array}$$

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

**13.**  $40 \div 8 =$  \_\_\_\_\_

- (a) 6 (b) 7  
(c) 5 (d) 6

**14.**  $9 \times 12 =$  \_\_\_\_\_

- (a) 98 (b) 108  
(c) 118 (d) 96

**15.**  $36 \div 6 =$  \_\_\_\_\_

- (a) 8 (b) 3  
(c) 5 (d) 6

**16.**  $4 \times 9 =$  \_\_\_\_\_

- (a) 26 (b) 56  
(c) 36 (d) 38

**17.**  $64 \div 8 =$  \_\_\_\_\_

- (a) 9 (b) 7  
(c) 6 (d) 8

**18.**  $77 \div 11 =$  \_\_\_\_\_

- (a) 7 (b) 5  
(c) 8 (d) 12

**19.**  $5 \times 12 =$  \_\_\_\_\_

- (a) 50 (b) 60  
(c) 70 (d) 80

**20.**  $72 \div 9 =$  \_\_\_\_\_

- (a) 8 (b) 9  
(c) 7 (d) 6

**21.**  $9 \times 6 =$  \_\_\_\_\_

- (a) 84 (b) 64  
(c) 74 (d) 54

**22.**  $81 \div 9 =$  \_\_\_\_\_

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

**23.** 
$$\begin{array}{r} 36 \\ \times 8 \\ \hline \end{array}$$

- (a) 268 (b) 278  
(c) 258 (d) 288

**24.** 
$$\begin{array}{r} 94 \\ \times 7 \\ \hline \end{array}$$

- (a) 658 (b) 638  
(c) 678 (d) 648

**25.**  $\square \times 4 = 32$

- (a) 9 (b) 7  
(c) 8 (d) 6

**26.**  $\square \div 5 = 6$

- (a) 40 (b) 30  
(c) 35 (d) 20

**27.**  $\square \times 3 = 27$

- (a) 8 (b) 7  
(c) 9 (d) 5

28.  $\square \div 6 = 6$

- (a) 36 (b) 56  
(c) 46 (d) 42

29.  $9 \times \square = 45$

- (a) 7 (b) 6  
(c) 8 (d) 5

30.  $72 \div \square = 9$

- (a) 9 (b) 8  
(c) 7 (d) 6

31. Double of 31 = \_\_\_\_\_

- (a) 52 (b) 72  
(c) 66 (d) 62

32. Half of 22 = \_\_\_\_\_

- (a) 11 (b) 44  
(c) 21 (d) 32

33. Double of 43 = \_\_\_\_\_

- (a) 76 (b) 56  
(c) 86 (d) 96

34. Half of 54 = \_\_\_\_\_

- (a) 37 (b) 17  
(c) 27 (d) 22

35.  $(3 + 1) \times (5 + 3) =$  \_\_\_\_\_

- (a) 42 (b) 52  
(c) 62 (d) 32

36.  $(9 - 4) \times (8 + 3) =$  \_\_\_\_\_

- (a) 55 (b) 95  
(c) 45 (d) 65

37.  $(4 + 8) \times (3 + 9) =$  \_\_\_\_\_

- (a) 124 (b) 134  
(c) 144 (d) 154

38.  $(6 - 2) \times (8 - 3) =$  \_\_\_\_\_

- (a) 30 (b) 20  
(c) 40 (d) 50

39. [Double of 30] - 11 = \_\_\_\_\_

- (a) 49 (b) 59  
(c) 39 (d) 69

40. Double of 10 - Half of 6 = \_\_\_\_\_

- (a) 27 (b) 37  
(c) 17 (d) 7

**SECTION 2**  
**(Mental Maths Concepts)**

41. 6 hundred + 5tens =

\_\_\_\_\_

- (a) 750            (b) 650  
(c) 350            (d) 450

42. 4 tens less than 5 hundred =

\_\_\_\_\_

- (a) 360            (b) 460  
(c) 260            (d) 760

43. Four tens more than  
9 hundred 2 tens & 3 units  
= \_\_\_\_\_

- (a) 962            (b) 972  
(c) 952            (d) 963

44. Which of the following is  
arranged in descending order.

- (a) 248, 648, 548, 948  
(b) 729, 624, 521, 418  
(c) 729, 759, 799, 839  
(d) 744, 648, 844, 548

45. What is the smallest three digit  
number can be formed by  
using each digit only once.

9, 2, 0

- (a) 29              (b) 209  
(c) 292            (d) 902

46. What is the largest number can  
be formed using each digit only  
once. 7, 1, 9

- (a) 179              (b) 719  
(c) 917              (d) 971

47.  $725 = 700 + \square + 5$   
The missing number in the  
box is

- (a) 20              (b) 200  
(c) 2                (d) 20 Hundred

48. Form largest 3 digit number by  
using following digits only  
once.

4, 1, 6, 2, 3, 9

- (a) 1629            (b) 964  
(c) 962            (d) 944

49. Form smallest 3 digit number  
by using following digits only  
once.

7, 0, 6, 5, 4, 3

- (a) 345              (b) 543  
(c) 304              (d) 657

50.  $(36 \div 4) + 4 =$  \_\_\_\_\_

- (a) 17              (b) 15  
(c) 18              (d) 13

51.  $(3 \times 9) + 10 =$  \_\_\_\_\_

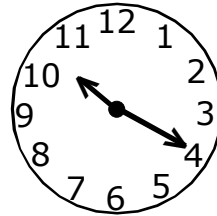
- (a) 36              (b) 45  
(c) 37              (d) 39

52.  $\frac{5}{7} + \square = \frac{9}{7}$   
 (a)  $\frac{5}{7}$  (b)  $\frac{4}{7}$   
 (c)  $\frac{6}{7}$  (d)  $\frac{3}{7}$
53.  $\frac{3}{5}$  and  $\square$  make 1 whole.  
 (a)  $\frac{2}{5}$  (b)  $\frac{3}{5}$   
 (c)  $\frac{6}{5}$  (d)  $\frac{1}{5}$
54. 3 & half = \_\_\_\_\_ quarters  
 (a) 11 (b) 13  
 (c) 15 (d) 14
55.  $4 \frac{3}{4} =$  \_\_\_\_\_ quarters  
 (a) 17 (b) 18  
 (c) 19 (d) 20
56. 3 years 4 months  
 = \_\_\_\_\_ months  
 (a) 28 (b) 40  
 (c) 34 (d) 39
57. 5 week = \_\_\_\_\_ days  
 (a) 50 (b) 35  
 (c) 25 (d) 45
58. 7 hrs = \_\_\_\_\_ min  
 (a) 420 (b) 240  
 (c) 620 (d) 204

59. 4 dozens = \_\_\_\_\_ unit

- (a) 58 (b) 38  
 (c) 48 (d) 68

60.



Time is \_\_\_\_\_

- (a) 10:04 hrs (b) 4:10 hrs  
 (c) 4:50 hrs (d) 10:20 hrs

**SECTION 3 (Mental Maths Challenge)**

61.



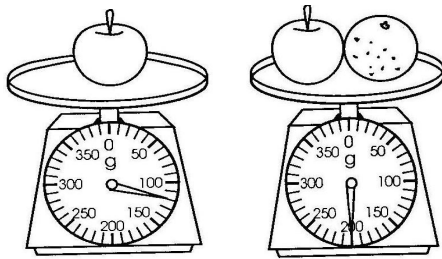
The total amount is ₹ = \_\_\_\_\_

- (a) 675                      (b) 575                      (c) 725                      (d) 625

62. Abhay has ₹ 100. He bought Pen for ₹ 23 and book for ₹ 12.  
He has ₹ \_\_\_\_\_ left.

- (a) 55                      (b) 45                      (c) 75                      (d) 65

63.



The mass of two oranges & an apple is \_\_\_\_\_ g.

- (a) 280                      (b) 320                      (c) 330                      (d) 300

64. John is 14 years old. He is 27 years younger than his father.  
His father age is \_\_\_\_\_ yrs.

- (a) 41                      (b) 14                      (c) 27                      (d) 52

65. 9 pupils share 27 sweets equally. Each pupils get \_\_\_\_\_ sweets.

- (a) 1                      (b) 8                      (c) 3                      (d) 5

66.  $\bigcirc + \bigcirc = 38$

$6 + \bigcirc = \star$

What does  $\star + \bigcirc$  stands for ?

- (a) 19                      (b) 44                      (c) 25                      (d) 54

67. Jimmy has a mass of 28 kg. His father is 24 kg heavier than Jimmy. What is a mass of Jimmy's Father.

- (a) 72                      (b) 62                      (c) 42                      (d) 52

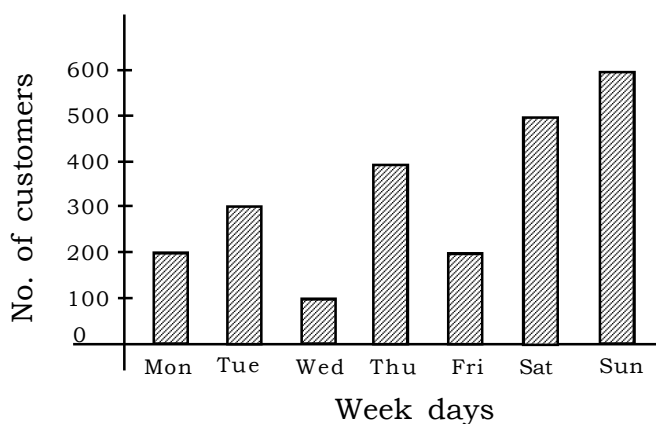
68. On children day, Every child got 2 sweets. There were 7 boys, 3 girls. Total sweet distributed are

- (a) 17                      (b) 19                      (c) 15                      (d) 20

69. An Auto has 3 wheels car has 4 wheels. Three car and 4 Auto has \_\_\_\_\_ wheels.

- (a) 20                      (b) 28                      (c) 24                      (d) 26

70. The bar graph shows the number of customers visited Restaurant ABC in a week.



There were \_\_\_\_\_ customers more on Thursday than Monday

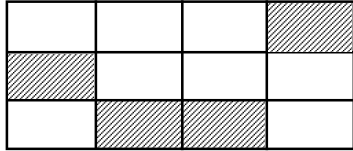
- (a) 500                      (b) 400                      (c) 200                      (d) 300



71.  $40 - 25 = \square \times 3$

- (a) 6 (b) 5 (c) 3 (d) 8

72.



How many more part to be shaded in the figure below to show  $\frac{1}{2}$ ?

- (a) 1 (b) 3 (c) 4 (d) 2

73.  $27 + \boxed{A} = 40$

$5 + \boxed{B} = 13$  Subtract B from A. The answer is \_\_\_\_\_

- (a) 13 (b) 6 (c) 4 (d) 5

74. Four number cards are shown below.

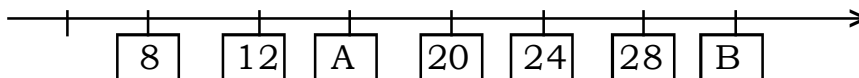


The cards are used to form two digit number more than 16 & less than 65. (Each card is used only once)

How many possible two digit numbers can be formed altogether

- (a) 3 (b) 4 (c) 9 (d) 6

75. Look at the number line below.



B is \_\_\_\_\_ more than A.

- (a) 10 (b) 8 (c) 16 (d) 12

**Extra question for Practise (Section III)**

**10**

**1.** Which of following statement is true?

(a)  $5 \times 6 = 5 + 5 + 5 + 5 + 5$

(b)  $6 \times 9 = 45$

(c)  $3 \times 4$  has same answer as  $6 \times 3$

(d)  $2 + 2 + 2 + 2 + 2 + 2 + 2 = 7 \times 2$

**2.** Xavier has 15 bricks. He places 3 bricks in each box. How many boxes are needed for all the bricks?

(a) 7

(b) 5

(c) 8

(d) 6

**3.** There are 10 hens in a farm. Each hen has 2 chicks. How many chicks are there altogether?

(a) 18

(b) 22

(c) 10

(d) 20

**4.** Sherrill has 22 balloons. She gives them equally to a few children. Each child gets 4 balloons.

How many ballons will not be given out?

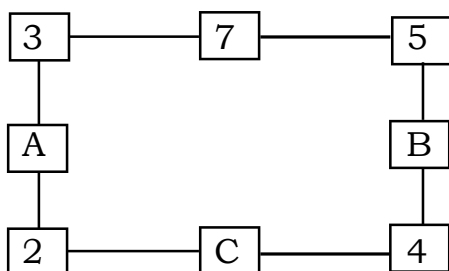
(a) 4

(b) 2

(c) 1

(d) 3

**5.**



The number on each side of a square add upto 15

$A + B + C = \text{-----}$

(a) 16

(b) 20

(c) 25

(d) 19

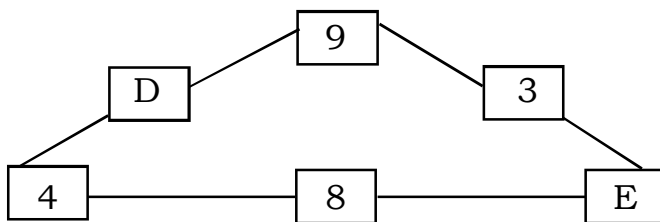
6. The minute hand is pointing at 5 and hour hand is pointing between 3 and 4.  
(a) 3 hrs 20 min      (b) 5 hrs 15 min      (c) 4 hrs. 5min      (d) 3 hrs 25 min

7. I am three digit number. The digits in the hundreds and tens place is same but digits in unit place is 3 less than 8, what number am I?  
(a) 345      (b) 655      (c) 775      (d) 757

8. I am 2 digit number between 40 and 60. I am there in 6 times multiplication table. But I am less than 48. What number am I ?  
(a) 36      (b) 42      (c) 48      (d) 54

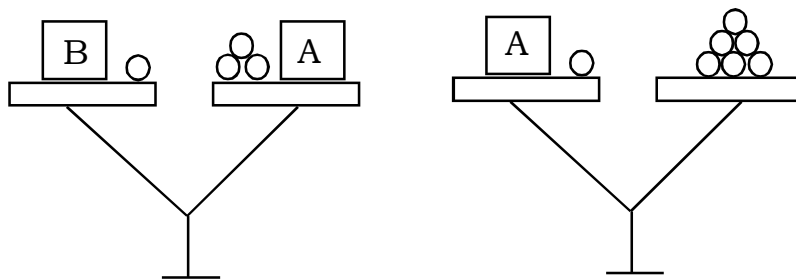
9. I am 2 digit number, less than 60 but more than 50, My unit place digit is 2 more than 5, I am the number \_\_\_\_\_  
(a) 25      (b) 55      (c) 57      (d) 59

10.



The number on each side of the triangle add upto 20 what is D+ E ?  
(a) 14      (b) 15      (c) 16      (d) 17

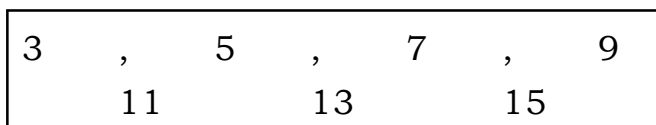
11.



Weight of box B is \_\_\_\_\_ units.

- (a) 6                      (b) 7                      (c) 8                      (d) 9

12.



Which of the following numbers add upto 20

- (a) 3, 13                      (b) 13, 9                      (c) 15 and 5                      (d) 11 and 7

13.

$$\begin{aligned} \Delta \quad \Delta \quad \Delta \quad \Delta \quad \Delta \quad \Delta \quad \Delta \quad \Delta &= 56 \\ \therefore \square \quad \square \quad \square &= 27 \\ \therefore \Delta + \square &= \square \end{aligned}$$

- (a) 21                      (b) 16                      (c) 17                      (d) 15

14. Six numbers are as given below.



use each number only once.

$$\square - \square = 10$$

Which number from given number is not used.

- (a) 12                      (b) 2                      (c) 7                      (d) 5

15. Ramesh is standing in a queue. He is 5th from the front and 6th from back. How many people are standing in the queue.

- (a) 5                      (b) 9                      (c) 10                      (d) 11

16.  $9 + 3 = A$        $9 - 6 = B$        $5 + 3 = C$

There fore  $A + B + C =$  \_\_\_\_\_

- (a) 20                      (b) 23                      (c) 15                      (d) 22

17.  $A = 5 + 3 + 2$                        $B = 5 + 3$

$\therefore A \times B =$  \_\_\_\_\_

- (a) 18                      (b) 64                      (c) 80                      (d) 48

18. Four number are given below use any 3 of the numbers to complete the additon sentence. Each number can only be used once.

1,    3,    6,    8

+  +  = 12

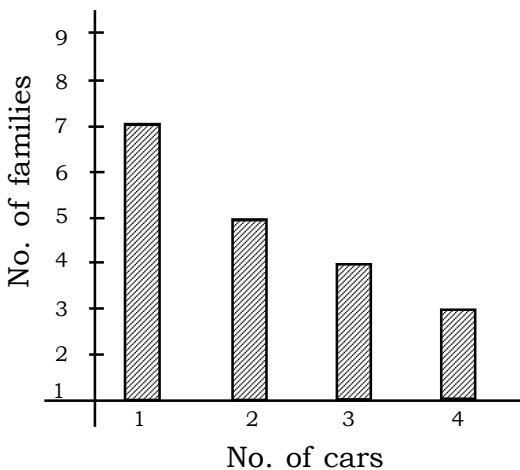
- (a)  $6 + 3 + 1$                       (b)  $8 + 6 + 1$                       (c)  $8 + 3 + 1$                       (d)  $8 + 1 + 2$

19. Which of the following box has the different answer from other three boxes.

- (i)       (ii)       (iii)       (iv)

- (a) i                      (b) ii                      (c) iii                      (d) iv

20.



How many cars are there from the families who own 2 cars only \_\_\_\_\_

- (a) 6                      (b) 10                      (c) 5                      (d) 8

- 21. There were some eggs in a nest. A snake came along and ate 2 eggs. If 9 eggs are remaining in the nest, how many eggs were in the nest at first?  
(a) 11                    (b) 7                    (c) 18                    (d) none of these
- 22. Pappu shared 18 cookies equally with his sister. Each of them will get \_\_\_\_\_ cookies.  
(a) 9                    (b) 12                    (c) 10                    (d) 11
- 23. Out of 54 bananas Amit ate 9 bananas and his father ate 16 bananas. How many bananas were left?  
(a) 70                    (b) 63                    (c) 29                    (d) 25
- 24. Uncle Tom reached Japan on 25th May & returned back to India on 9th July. For how many days he stayed in Japan?  
(a) 43                    (b) 44                    (c) 45                    (d) 46
- 25. Look at the number bonds below.



A is \_\_\_\_\_ more than B.

- (a) 29                    (b) 31                    (c) 39                    (d) 49

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## **Answer Sheet**

**15**

1	c		26	b		51	c
2	b		27	c		52	b
3	a		28	a		53	a
4	d		29	d		54	d
5	c		30	b		55	c
6	a		31	d		56	b
7	c		32	a		57	b
8	b		33	c		58	a
9	d		34	c		59	c
10	a		35	d		60	d
11	d		36	a		61	a
12	c		37	c		62	d
13	c		38	b		63	a
14	b		39	a		64	a
15	d		40	c		65	c
16	c		41	b		66	b
17	d		42	b		67	d
18	a		43	d		68	d
19	b		44	b		69	c
20	a		45	b		70	c
21	d		46	d		71	b
22	b		47	a		72	d
23	d		48	b		73	d
24	a		49	c		74	c
25	c		50	d		75	c

### **Answers for extra practice questions**

1	d		9	c		17	c
2	b		10	b		18	c
3	d		11	b		19	b
4	b		12	c		20	b
5	c		13	b		21	a
6	d		14	d		22	a
7	c		15	c		23	c
8	b		16	b		24	c
						25	c

## Section 3 (Solution)

16

- 61) The total amount is ₹  
 $= 500 + 100 + 50 + 20 + 5$   
 $= 675$
- 62) Abhay has ₹ 100  
 Price of pen = ₹ 23  
 Price of book = ₹ 12  
 $\therefore$  Total price =  $23 + 12 = ₹ 35$   
 $\therefore$  Amount left =  $100 - 35$   
 $= ₹ 65$
- 63) Mass of an Apple = 120 gm  
 Mass of apple & orange = 200 g  
 $\therefore$  Mass of orange =  $200 - 120$   
 $= 80$  g  
 So mass of two orange & apple is  
 $= 2 \times 80 + 1 \times 120$   
 $= 160 + 120$   
 $= 280$  g.
- 64) John is 14 yrs old  
 John is 27 yrs. younger than his father.  
 $\therefore$  Age of father =  $27 + 14$   
 $= 41$  yrs.
- 65) 9 pupils share 27 sweets equally.  
 $\therefore$  Each pupil get = 3 sweets.
- 66)
- $$\begin{aligned} \bigcirc + \bigcirc &= 38 \\ \therefore 2 \times \bigcirc &= 38 \\ \therefore \bigcirc &= \frac{38}{2} = 19 \\ \therefore 6 + \bigcirc &= \star \\ \therefore 6 + 19 &= 25 \\ \therefore \star &= 25 \\ \star + \bigcirc &= 25 + 19 = 44 \end{aligned}$$
- 67) Jimmy has mass = 28 kg  
 Father is 24 kg. heavier than Jimmy.  
 $\therefore$  Father is  $24 + 28 = 52$  kg.
- 68) Every child got 2 sweets  
 Total number of children  
 $= 7$  boys + 3 girls  
 $= 10$   
 $\therefore$  Total sweets distributed  
 $= 2 \times 10$   
 $= 20$  sweets
- 69) Auto has 3 wheels  
 Car has 4 wheels  
 $\therefore$  Three car has :  $3 \times 4$   
 $= 12$  wheels.  
 $\therefore$  4 Auto has :  $4 \times 4$   
 $= 16$  wheels.  
 $\therefore$  3 car and 4 Auto has :  
 $12 + 16 = 28$  wheels.
- 70) From given bar graph,  
 No. of customers on Monday = 200  
 No. of customers on Thursday = 400  
 $\therefore$  There were  $400 - 200 = 200$   
 Customers more on Thursday than Monday.

71)  $40 - 25 = 15 = \square \times 3$

$$\square \times 3 = 15$$

$$\therefore \square = \frac{15}{3}$$

$$\therefore \square = 5$$

- 72) In given fig.  
 Shaded part = 4  
 Unshaded part = 3  
 $\therefore$  Total part = 12  
 $\therefore$  6 parts should be shaded in order to show  $\frac{1}{2}$  shaded portion.  
 $\therefore$  2 more part to be shaded to show  $\frac{1}{2}$ .

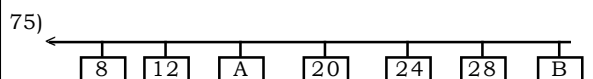
- 73)  $27 + A = 40$   
 $\therefore A = 40 - 27 = 13$   
 $5 + B = 13$   
 $\therefore B = 13 - 5 = 8$   
 $\therefore$  Subtract B from A.  
 i.e.  $A - B = 13 - 8 = 5$

- 74) Four number cards are :

4
3
6
1

The cards are used to form two digit number more than 16 and less than 65.

- $\therefore$  With card 1 we can have, 16, 13, 14 possible two digit numbers. None of them is more than 16 & less than 65.
- $\therefore$  With card 6 we can have, 61, 63, 64 possible two digit numbers. All these numbers are more than 16 and less than 65.
- $\therefore$  with card 3 we can have, 31, 36, 34 possible two digit numbers. All these numbers are more than 16 and less than 65.
- $\therefore$  with card 4 we can have, 41, 46, 43 possible two digit numbers. All these numbers are more than 16 and less than 65.
- $\therefore$  There are total  $3 + 3 + 3$   
 i.e. 9 possible two digit numbers can be formed altogether.



- From given number line,  
 A is  $12 + 4 = 16$   
 and  
 B is  $28 + 4 = 32$   
 $\therefore$  B is  $32 - 16 = 16$  more than A.



## Extra Practice Questions (Solution)

17

1) Which of the following statement is true ?

(a)  $5 \times 6 = 30$   
 $5 + 5 + 5 + 5 + 5 = 25$   
 $30 \neq 25$

(b)  $6 \times 9 = 54$   
 $\therefore 54 \neq 45$

(c)  $3 \times 4 = 12$   
 $6 \times 3 = 18$   
 $\therefore 12 \neq 18$

(d)  $2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$   
 $7 \times 2 = 14$

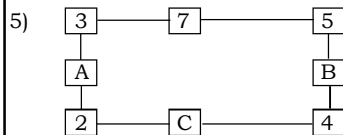
(d) is correct statement

2) Xavier has 15 bricks.  
 He places 3 bricks in each box.

$\therefore \frac{15}{3} = 5$  boxes are needed for all the bricks.

3) There are 10 hens in a farm.  
 Each hen has 2 chicks  
 $\therefore 10$  hens has  $2 \times 10 = 20$  chicks.

4) Sherrill has 22 balloons.  
 She gives them equally to few children.  
 Each child gets 4 balloons.  
 $\therefore 4 + 4 + 4 + 4 + 4 = 20$  balloons  
 will be given out and 2 will not be given out.



The number on each side of a square add upto 15

$\therefore$  Left side =  $3 + A + 2 = 15$   
 $\therefore A = 15 - 5$   
 $\therefore A = 10$   
 $\therefore$  Right side =  $5 + B + 4 = 15$   
 $\therefore B = 15 - 9$   
 $\therefore B = 6$   
 $\therefore$  Bottom side =  $2 + C + 4 = 15$   
 $\therefore C = 15 - 6$   
 $\therefore C = 9$   
 $\therefore A + B + C = 10 + 6 + 9 = 25$

6) The minute hand is pointing at 5.  
 Hour hand is pointing between 3 and 4.  
 $\therefore$  i.e. 3 hrs 25 min.

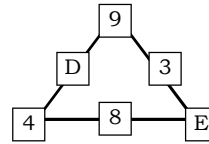
7) I am three digit number.  
 The digit in hundreds and tens place is same.  
 Digit in unit place is 3 less than 8 i.e. 5  
 $\therefore$  The number is : 555

8) I am 2 digit number between 40 and 60.  
 The number in 6 times multiplication table.  
 The number is less than 48.  
 $\therefore$  The possible number in 6ths table is 42.

9) I am 2 digit number, less than 60 but more than 50.

The unit place digit is 2 more than 5 = 7  
 $\therefore$  The number is 57

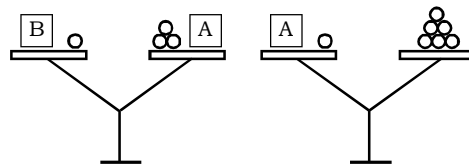
10)



The number on each side of the triangle add upto 20.

$\therefore 9 + D + 4 = 20$   
 $\therefore D = 20 - 13 = 7$   
 $\therefore 9 + 3 + E = 20$   
 $\therefore E = 20 - 12$   
 $\therefore E = 8$   
 $\therefore D + E = 7 + 8 = 15$

11)



Since,

$A + 1 \text{ unit} = 6 \text{ units}$   
 $\therefore A = 6 - 1 = 5 \text{ units}$

Also,

$B + 1 \text{ unit} = 3 \text{ units} + A$   
 $\therefore B + 1 \text{ unit} = 3 + 5 = 8 \text{ units}$   
 $B = 8 \text{ units} - 1 \text{ unit} = 7 \text{ units.}$

12) Which of the following numbers add upto 20  
 Ans. 15 and 5

$\therefore 15 + 5 = 20$

13)  $\triangle \triangle \triangle \triangle \triangle \triangle \triangle \triangle = 56$

$\therefore 8 \times \triangle = 56$

$\therefore \triangle = \frac{56}{8} = 7$

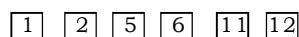
$\therefore \square \square \square = 27$

$\therefore 3 \times \square = 27$

$\therefore \square = \frac{27}{3} = 9$

$\therefore \triangle + \square = 7 + 9 = 16$

14) Six numbers are



$\square - \square = 10$

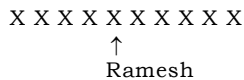
Since,

$\boxed{12} - \boxed{2} = 10,$

$\boxed{11} - \boxed{1} = 10$

∴ The numbers that are not used =  $\boxed{5}$  &  $\boxed{6}$   
 ∴ Ans :  $\boxed{5}$

15) Ramesh is standing in a queue.  
 He is 5th from the front and 6th from back.



∴ There are total 10 people standing in queue.

16)  $9 + 3 = A$ ,  $9 - 6 = B$ ,  $5 + 3 = C$   
 ∴  $12 = A$   
 ∴  $3 = B$   
 ∴  $8 = C$   
 ∴  $A + B + C = 12 + 3 + 8 = 23$

17)  $A = 5 + 3 + 2$ ,  $B = 5 + 3$   
 $= 10$   $= 8$   
 ∴  $A \times B = 10 \times 8 = 80$

18) Four numbers are given:  
 Each no. can only be used once.

1, 3, 6, 8

$8 + 3 + 1 = 12$

19) Which of the box has the different answer.  
 From other three boxes.

i)  $\boxed{5 + 6} = 11$

ii)  $\boxed{19 - 7} = 12$

iii)  $\boxed{8 + 3} = 11$

iv)  $\boxed{14 - 3} = 11$

∴ Ans :  $\boxed{19 - 7} = 12$

20) From given graph,  
 There are 5 families who has taken 2 cars only

∴ There are total  $2 \times 5 = 10$  cars from the families who own 2 cars only.

21) A snake eats 2 eggs.  
 Hence, now 9 eggs are left in a nest.

∴ There were total  $9 + 2 = 11$  eggs at first.

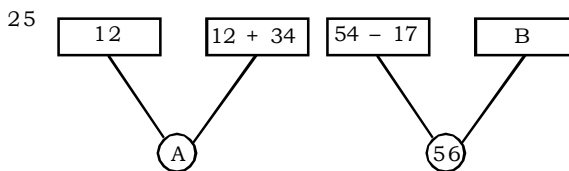
22) Pappu shared 18 cookies equally with his sister

∴ each of them will get = 9 cookies.

23) Out of 54 bananas Amit ate 9 bananas.

∴ Now there are  $54 - 9 = 45$  bananas left.  
 Father ate 16 bananas.  
 Hence, there are  $45 - 16 = 29$  bananas left.

24) Uncle Tom reached Japan on 25<sup>th</sup> May and returned back to India on 9<sup>th</sup> July,  
 ∴ 25 May to 31st May = 7 days  
 1<sup>st</sup> June to 30th June = 30 days  
 1<sup>st</sup> July to 8th July = 8 days.  
 ∴ He stayed in Japan for  $7 + 30 + 8 = 45$  days.



∴  $A = 12 + 12 + 34 = 58$

∴  $54 - 17 + B = 56$

∴  $37 + B = 56$

∴  $B = 56 - 37$

∴  $B = 19$

∴ A is  $58 - 19 = 39$  more than B.



# MENTAL MATHS COMPETITION<sup>®</sup>

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

(A) (B) (C) (D)

(A) (B) (C) (D)

(A) (B) (C) (D)

Correct way of shading

(A) (B) (C) (D)

**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**

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)
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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**

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)

**Mental Maths Competition®****Topics Included.**

- (1) Q. No. 1 to 40 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 12.
- (3) 3 digit Nos. operation, Mixed operations [+ , - , × , ÷]
- (4) Tell the time given in a clock.
- (5) Reading & answering questions related to bar graph.
- (6) Calculation related to time and money.
- (7) Number series (WHAT COMES NEXT), Number Bonds.
- (8) divisibility property of 2, 3, 4, 6, 9, 10.
- (9) Fractions concepts of quarter, half, three quarters & whole.
- (10) Conversion from hrs to mins, years to months, weeks to days, dozen to units.
- (11) Simple word problems related to (+, - , ×, ÷)
- (12) Formation of smallest and greatest number by using given digits.

**Books**

for extra practice  
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Std. 1 to 7

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