

# Mental Maths Competition<sup>®</sup> 2013

**Std 3**

Total Marks : 200

Time : 90 min

Total No of questions: 75

## Instructions for the Competition

1. Time :  $1\frac{1}{2}$  hr
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 30 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.

## 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  $[+ , - , \times , \div]$
- (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)
- (8) Roman Numbers (FROM 1 to 100) , 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  $(+ , - , \times , \div)$
- (12) Formation of smallest and greatest number by using given digits.

**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.

$$\begin{array}{r} 9\square6 \\ - 388 \\ \hline 578 \end{array}$$

- (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.  
2,0,9  
(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.**  $725 = 700 + \boxed{\phantom{000}} + 5$   
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, 4, 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) 034 (b) 543  
(c) 304 (d) 657
- 50.**  $(36 \div 4) + 4 = \underline{\hspace{2cm}}$   
(a) 17 (b) 15  
(c) 18 (d) 13
- 51.**  $(3 \times 9) + 10 = \underline{\hspace{2cm}}$   
(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

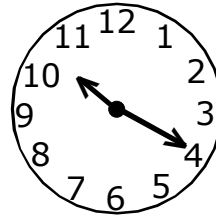
(a) 58

(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.**



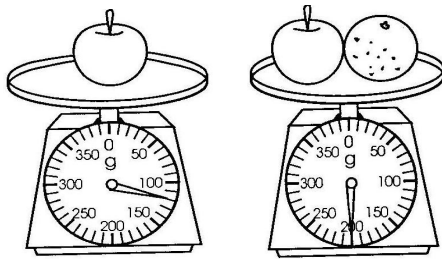
The total amount is ₹ = \_\_\_\_\_

- (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

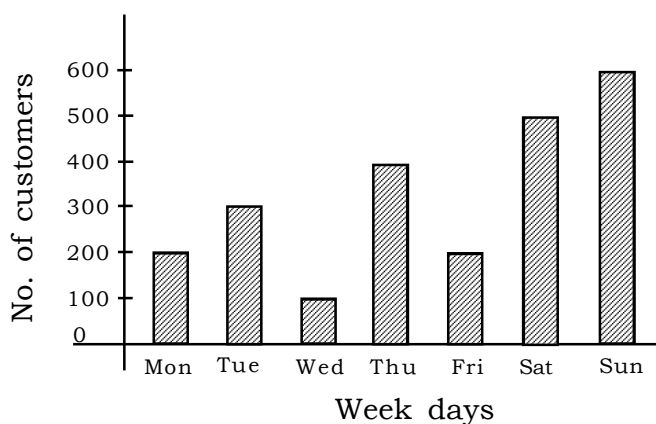
68. On children day, Every child got 2 sweets. There were 7 boys, 3 girls. Total sweet distributed are

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

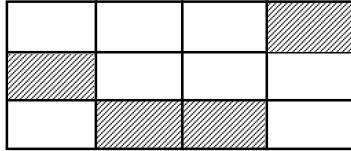
(a) 6

(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.

4
---

3
---

6
---

1
---

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

How many possible two digit numbers can be formed altogether

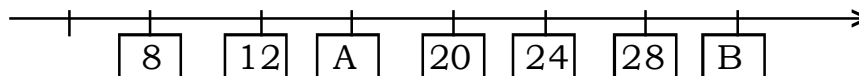
(a) 3

(b) 4

(c) 9

(d) 6

75. Look at the number line below.



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

(a) 10

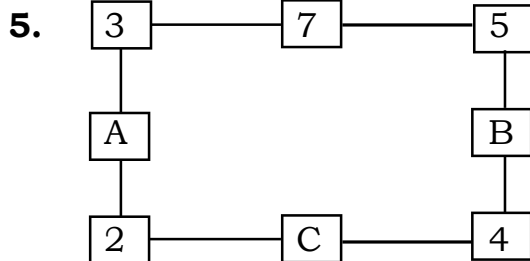
(b) 8

(c) 16

(d) 12

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

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



The number on each side of a square add upto 15

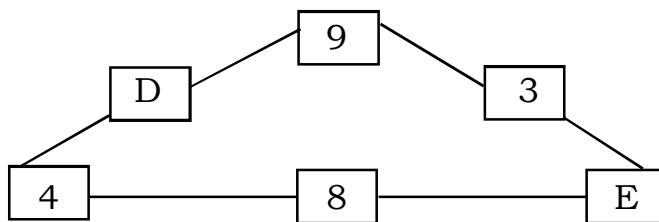
$$A + B + C = \text{-----}$$

- (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) 555      (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

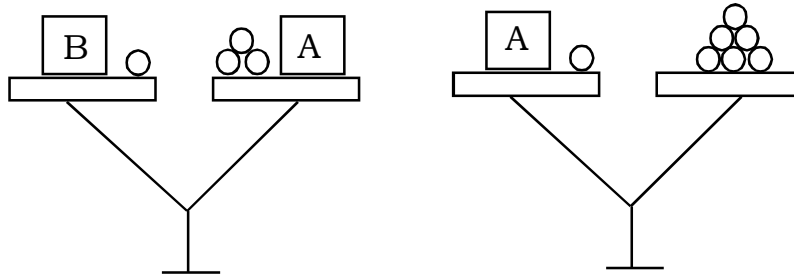
10.



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.

3	,	5	,	7	,	9
		11		13		15

Which of the following numbers add upto 20

(a) 3, 13

(b) 13, 9

(c) 15 and 5

(d) 11 and 7

13.

$$\begin{array}{rcl}
 \Delta & \Delta & \Delta & \Delta & \Delta & \Delta & \Delta & \Delta & = 56 \\
 \therefore & \square & \square & \square & & & & & = 27 \\
 \therefore & \Delta & + & \square & & & & & = \square
 \end{array}$$

(a) 21

(b) 16

(c) 17

(d) 15

14. Six numbers are as given below.

(1) (2) (5) (6) (11) (12)

use each number only once.

$$\square - \square = 10$$

Which number from given number is not used.

(a) 12

(b) 2

(c) 7

(d) 1

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

Therefore  $A + B + C =$  \_\_\_\_\_

- (a) (b) (c) (d)

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

$$\therefore A \times B = \underline{\hspace{2cm}}$$

- (a) (b) (c) (d)

- 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
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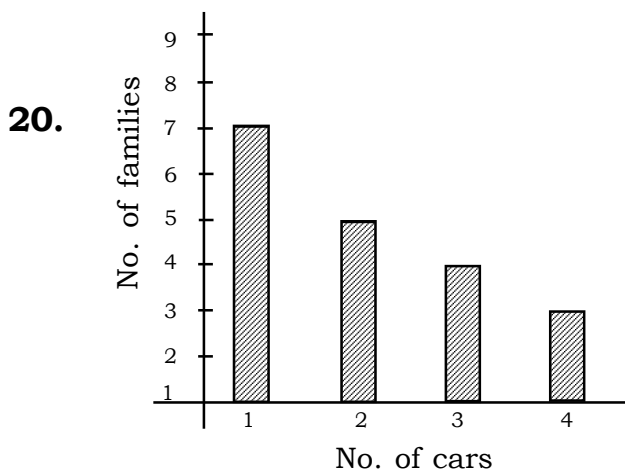
$$\square + \square + \square = 12$$

- (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)  $5 + 6$       (ii)  $19 - 7$       (iii)  $8 + 3$       (iv)  $14 - 3$

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

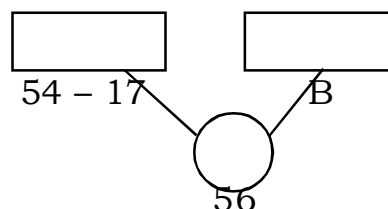
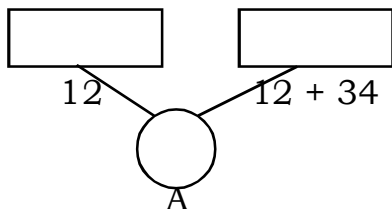


How many cars are there from the families who own 2 cars only\_\_\_\_\_

- (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

***For more practise papers log on [www.mathsshow.com](http://www.mathsshow.com)***

For any query related to question paper format, Kindly send email to us at [mmcgmse@gmail.com](mailto:mmcgmse@gmail.com) . We will be replying with in 24 hours.

**Answer Sheet**

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	b
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)**

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 :

$\boxed{4} \boxed{3} \boxed{6} \boxed{1}$

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

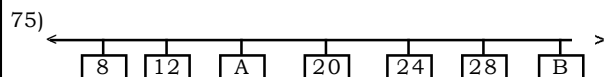
$\therefore$  With card  $\boxed{1}$  we can have,  
 16, 13, 14 possible two digit numbers.  
 None of them is more than 16 & less than 65.

$\therefore$  With card  $\boxed{6}$  we can have,  
 61, 63, 64 possible two digit numbers.  
 All these numbers are more than 16 and less than 65.

$\therefore$  with card  $\boxed{3}$  we can have,  
 31, 36, 34 possible two digit numbers.  
 All these numbers are more than 16 and less than 65.

$\therefore$  with card  $\boxed{4}$  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)**

- 1) Which of the following statement is true ?

$$\begin{aligned} \text{(a)} \quad 5 \times 6 &= 30 \\ 5 + 5 + 5 + 5 + 5 &= 25 \\ 30 &\neq 25 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad 6 \times 9 &= 54 \\ \therefore 54 &\neq 45 \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad 3 \times 4 &= 12 \\ 6 \times 3 &= 18 \\ \therefore 12 &\neq 18 \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad 2 + 2 + 2 + 2 + 2 + 2 + 2 &= 14 \\ 7 \times 2 &= 14 \end{aligned}$$

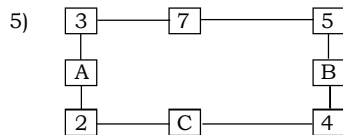
(d) is correct statement

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

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

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

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



The number on each side of a square add upto 15

$$\therefore \text{Left side} = 3 + A + 2 = 15$$

$$\therefore A = 15 - 5$$

$$\therefore A = 10$$

$$\therefore \text{Right side} = 5 + B + 4 = 15$$

$$\therefore B = 15 - 9$$

$$\therefore B = 6$$

$$\therefore \text{Bottom side} = 2 + C + 4 = 15$$

$$\therefore C = 15 - 6$$

$$\therefore C = 9$$

$$\therefore A + B + C = 10 + 6 + 9 = 25$$

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

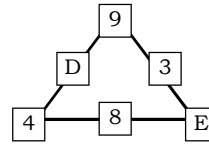
- 7) I am three digit number.
- 
- The digit in hundreds and tens place is same.
- 
- Digit in unit place is 3 less than 8 i.e. 5.
- 
- $\therefore$
- The number is : 555

- 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.

$$\therefore 9 + D + 4 = 20$$

$$\therefore D = 20 - 13 = 7$$

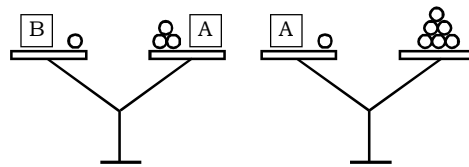
$$\therefore 9 + 3 + E = 20$$

$$\therefore E = 20 - 12$$

$$\therefore E = 8$$

$$\therefore D + E = 7 + 8 = 15$$

- 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)
- $\triangle \triangle \triangle \triangle \triangle \triangle \triangle \triangle = 56$

$$\therefore 8 \times \triangle = 56$$

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

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

$$\therefore 3 \times \square = 27$$

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

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

$$\therefore 7 + 9 = 16$$

- 14) Six numbers are

$$\boxed{1} \quad \boxed{2} \quad \boxed{5} \quad \boxed{6} \quad \boxed{11} \quad \boxed{12}$$

$$\square - \square = 10$$

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.

X X X X X X X X X  
 ↑  
 Ramesh

∴ 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 :  $\boxed{19 - 7} = 12$

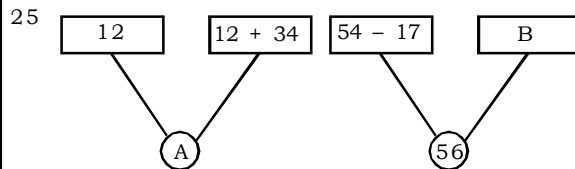
- 20) From given graph,  
 There are 5 families who has taken 2 cars only  
 ∴ There are total  $2 \times 5 = 10$  cars from the families who own 2 cars only.

- 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.