पुष्णा International School
Shree Swaminarayan Gurukul, Zundal

Grade – III

Mathematic

Specimen copy

SEM - 1 (22-23)

Chapter – 1
Where To Look From

➢ KEY POINTS TO REMEMBER

* Introduction of 2 D shapes
* Different views of an object
* Mirror images
* Line of symmetry
* Mirror halves
* Look at the pictures given below. Circle the pictures which are divided into two mirror halves by the dotted line
* Activity

Introduction of 2-D shapes

Name	Sides	Vertices
triangle	3	3
circle	1	0
square	4	4
rectangle	4	4

Name	Sides	Vertices
pentagon	5	5
hexagon	6	6
oval	1	0
rhombus	4	4

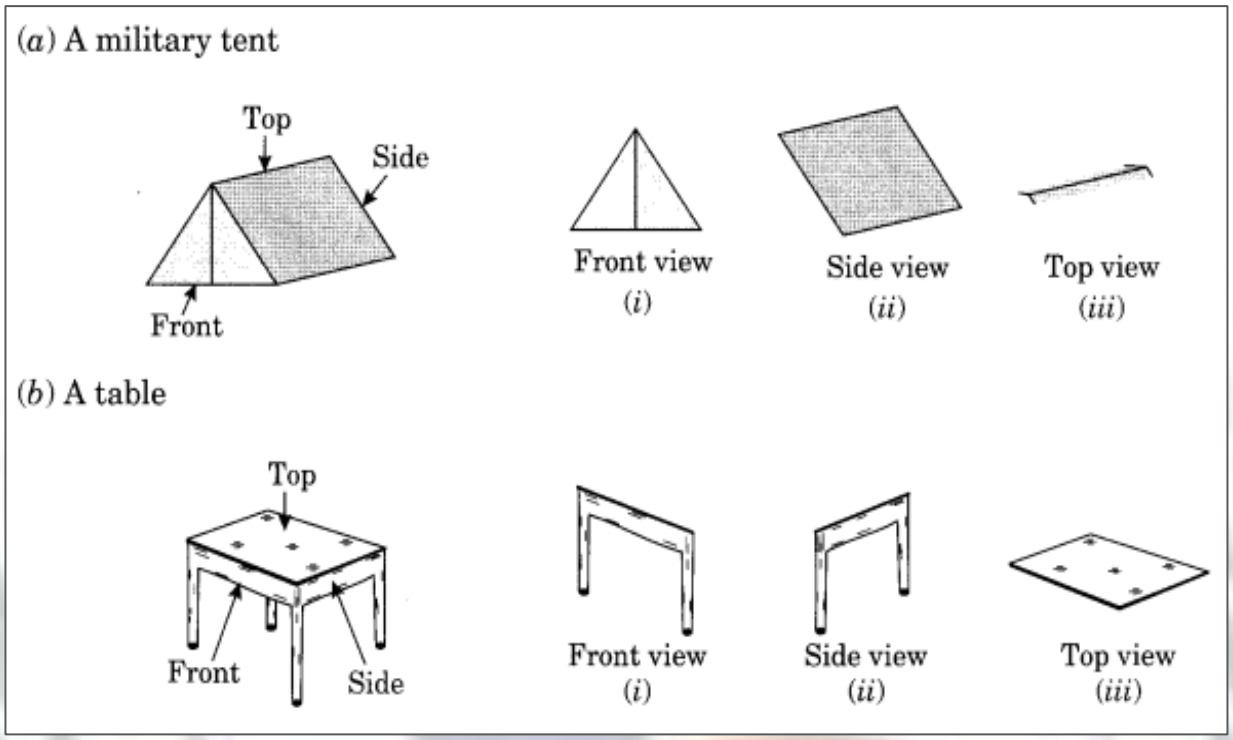
Different views of an object

Q :- **What is object ?**

Ans - Object is a material thing which can be seen or touch. The different types of views are front view, top view, side view.

- **Front view : -** Front view is what you see from front, when you look at something.
- **Side view : -** Side view is what you see from side, when you look at something.
- **Top view : -** Top view is what you see when you look at something from directly above.

- Examples are as follows.

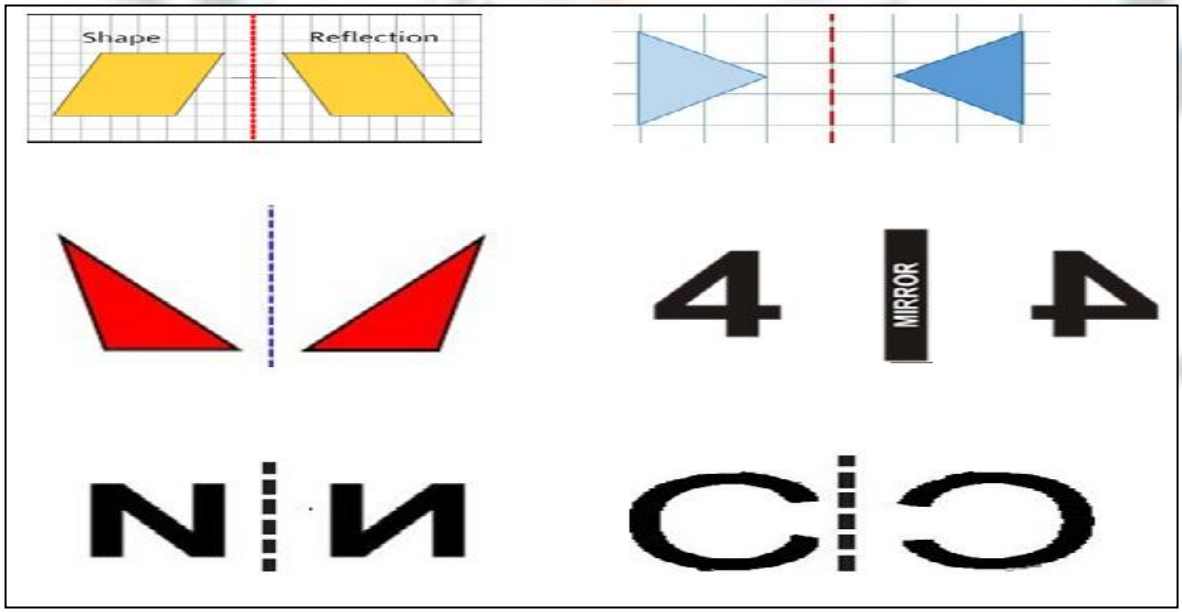


Notes – Draw any two more things with their views. (H.W.)

Mirror images

An image which is like a reflection in a mirror. Everything is the same, except reversed.

Examples are as follows.



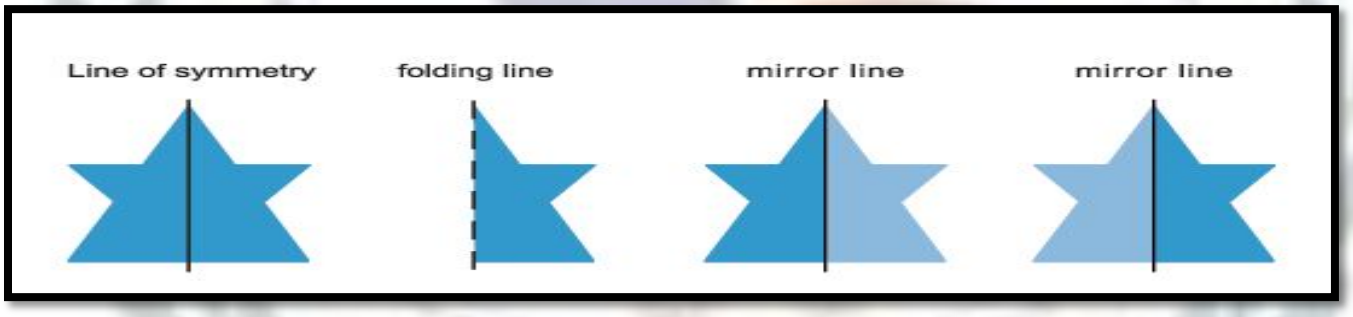
Line of symmetry

A line dividing a figure into two identical parts is called the line of symmetry . There are 3 types of line of symmetry.

1) Vertical line of symmetry.

2. Horizontal line of symmetry.

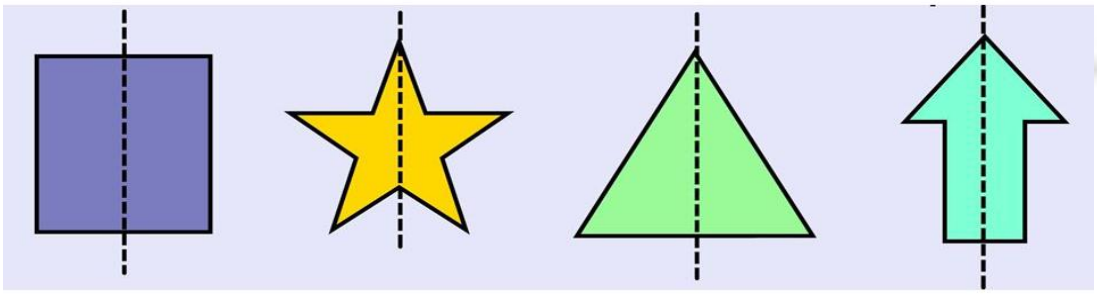
3) Oblique line of symmetry.



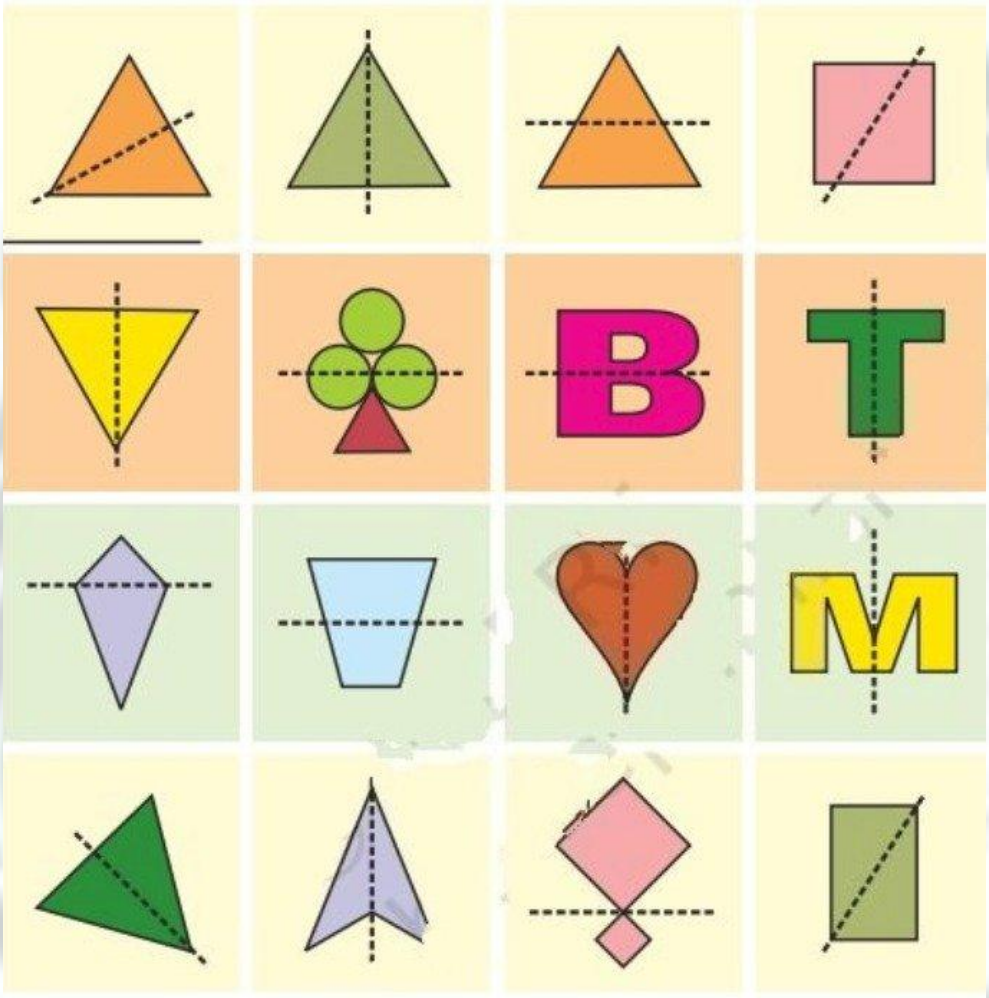
Mirror halves

Mirror halves are a type of symmetry in which one half of the object is the mirror image of the other.

Examples are as follows.

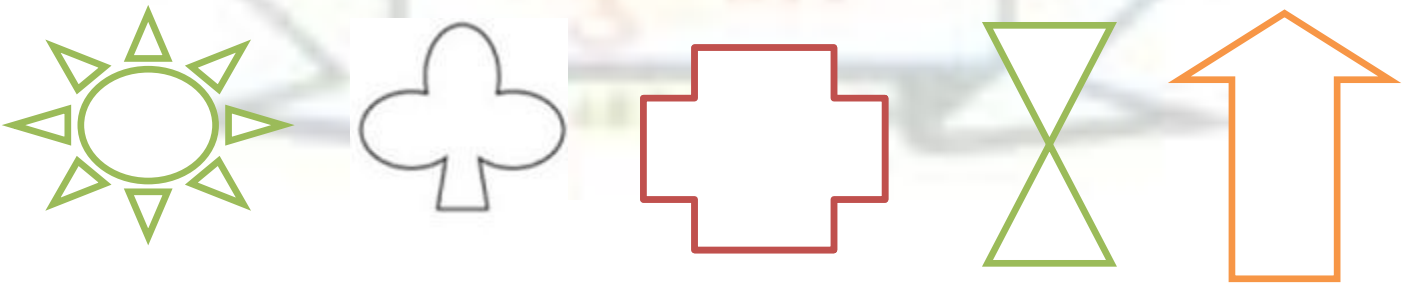


b. Look at the pictures given below. Circle the pictures which are not divided into two mirror halves by the dotted line.



Activity

Draw the line of symmetry for the following figures.



Chapter 2
Fun with Numbers

➢ KEY POINTS TO REMEMBER

- ❖ **Fill in the blanks.**
- ❖ **Write the expanded form of the following.**
- ❖ **Counting by 10's, write the next number.**
- ❖ **Counting by 10's, write the backward number.**
- ❖ **Counting by 50's, write the next number.**
- ❖ **Complete the patterns in sequence.**
- ❖ **Word problem.**
- ❖ **Activity**

➢ Fill in the blanks

1) The smallest one digit number is **1**.

2) The greatest one digit number is **9.**

3) The smallest two digit number is **10**.

4) The greatest two digit number is **99**.

5) The smallest three digit number is **100**.

6) The greatest three digit number is **999**.

➢ Write the expanded form of the following

1) 332 = **3 hundred + 3 tens + 2ones**.

2) 689 = **6 hundred + 8 tens + 9ones**.

3) 987 = **9 hundred + 8 tens + 7ones**.

4) 254 = **2 hundred + 5 tens + 4ones.**

5) 867 = **8 hundred + 6 tens + 7ones.**

6) 700 = **700 + 00 + 0.**

7) 545 = **500 + 40 + 5.**

8) 937 = **900 + 30 + 7.**

9) 150 = **100 + 50 + 0.**

• Countingby 10's, write the next number

1) 728 ,**738, 748 , 758 ,768.**

2) 230, **240 , 250 , 260 ,270.**

3) 445 ,**455 , 465 , 475 ,485.**

4) 500 ,**510 , 520 , 530 ,540.**

5) 344, **354 , 364 , 374 ,384.**

- Counting by 10's, write the backward number

1) 200 , **190 , 180 , 170 ,160.**

2) 450 ,**440 , 430 , 420 ,410.**

3) 670 ,**660 ,650 , 640 ,630.**

4) 510 ,**500 , 490 , 480 ,470.**

5) 300 ,**290 , 280 , 270 ,260.**

- Counting by 50's, write the next number

1) 400 ,**450 , 500 ,550 , 600.**

2) 750, **800 , 850 , 900 ,950.**

3) 600, **650 , 700 , 750 ,800.**

4) 350, **400 ,450 , 500 ,550.**

5) 100, **150 ,200 , 250 ,300.**

- Complete the patterns in sequence

1) 315, 325, 335, 345, **355, 365, 375.**

2) 780, 770,760, 750, **740 ,730,720.**

3) 600, 605, 610, 615, **620,625,630.**

4) 735,730, 725, 720 ,**715, 710,705.**

5) 820, 830, 840, 850, **860, 870, 880.**

6) 302, 312, 322, 332, **342, 352, 362.**

7) 760, 750, 740, 730 ,**720,710,700.**

8) 500, 550, 600, 650, **700, 750, 800.**

❖ Word problem.

1. Kavya skips counting by 50's and started counting backward from 600 to 350. Write the numbers she counted.

   Sol:-550, 500, 450, 400.

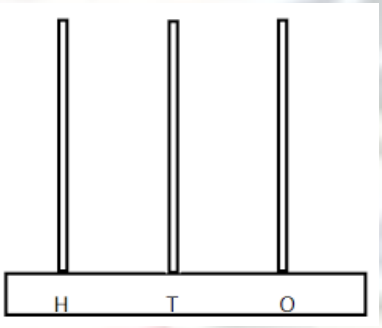
2. Raj jumps 5 steps forward starting from 100 till 130. Write the numbers he jumped.

   Sol:-105, 110, 115, 120, 125.

Activity

- **Draw the beads on the abacus from the given number.**

510



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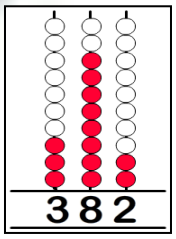

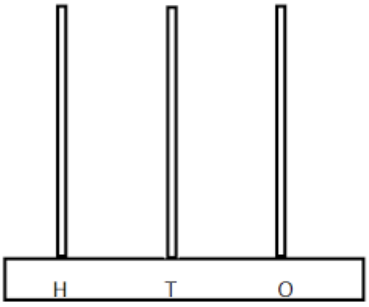

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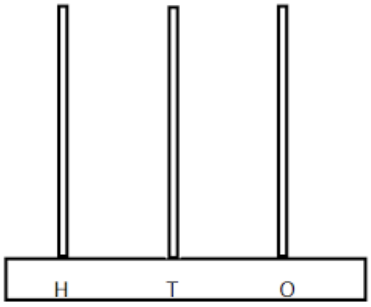

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Chapter - 3
Give And Take

➢ KEY POINTS TO REMEMBER

- ❖ **Fill in the blanks.**
- ❖ **Column method addition**
- ❖ **Addition with carry**
- ❖ **Word problems**
- ❖ **Activity**

- **Fill in the blanks:**

1) 75 + 10 = 85
2) 34 + 43 = 77
3) 65 – 30 = 35
4) 87 – 42 = 45
5) 5 + 8 + 7 = 20
6) 9 + 31 + 40 = 80
7) 10 more than 45 is 55
8) 12 less than 34 Is 22
9) 18 added to 71 is 89
10) The difference of 99 and 39 is 60
11) Reducing 98 by 34 gives 64
12) Take 35 away from 83. We get 48
13) The sum of 9 and 44 is 53

- **Column method addition**

a) 72 + 22= **70 + 2 + 20 + 2**

= 70 + 20 + 2 + 2

= 90 + 4

= 94

b) 46 + 23= **40 + 6 + 20 + 3**

= 40 + 20 + 6 + 3

=60+ 9

= 69

c) 27 + 71= **20 + 7 + 70 +1**

= 20 + 70 + 7+ 1

= 90 + 8

= 98

d) 49 + 50 =**40 + 9 +50 + 0**

= 40 +50 + 9 + 0

= 90 + 9

= 99

e) 87 + 67=**80 + 7 +60 + 7**

= 80 +60 +7 + 7

= 140 + 14

= 154

f) 19 + 61 = **10 + 9 + 60 + 1**

= 10 + 60 + 9 + 1

= 70 + 10

= 80

- **Addition with carry.**

11 996 + 958 **1954**	11 896 + 968 **1864**	11 795 + 998 **1793**	11 674 + 767 **1441**
11 599 + 978 **1577**	11 678 + 543 **1221**	11 876 + 555 **1431**	11 346 + 987 **1333**

- **Word problems**

1) A train compartment is carrying 132 people. Another compartment is carrying 129 people. Find the total number of people in both the compartments ?

1 132 + 129	people in first compartment people in second compartment
261	total no. of people

2) Swati found 138 pebbles. Varun found 78 pebbles. How many pebbles did they find In all?

1 1 138 + 78	pebbles pebbles
216	total no. pebbles

3) Florence saved Rs 579 in her piggy bank. Her mother gave her Rs 264 more. How much total money she have now?

1 1 579 + 264	in piggy bank mother gave
843	total she had

4) In a factory, there are two colours of bulbs as listed below. Answer the question given below on the basis of it.

Colour	Big	Small
Yellow	240	198
Red	157	243

a) How many big bulbs are there?

1 240 + 157	yellow red
397	total bulbs

b) How many red colour bulbs are there?

Ans = 157 + 243 = 400 red bulbs

c) Is the number of small bulbs more than big bulbs?

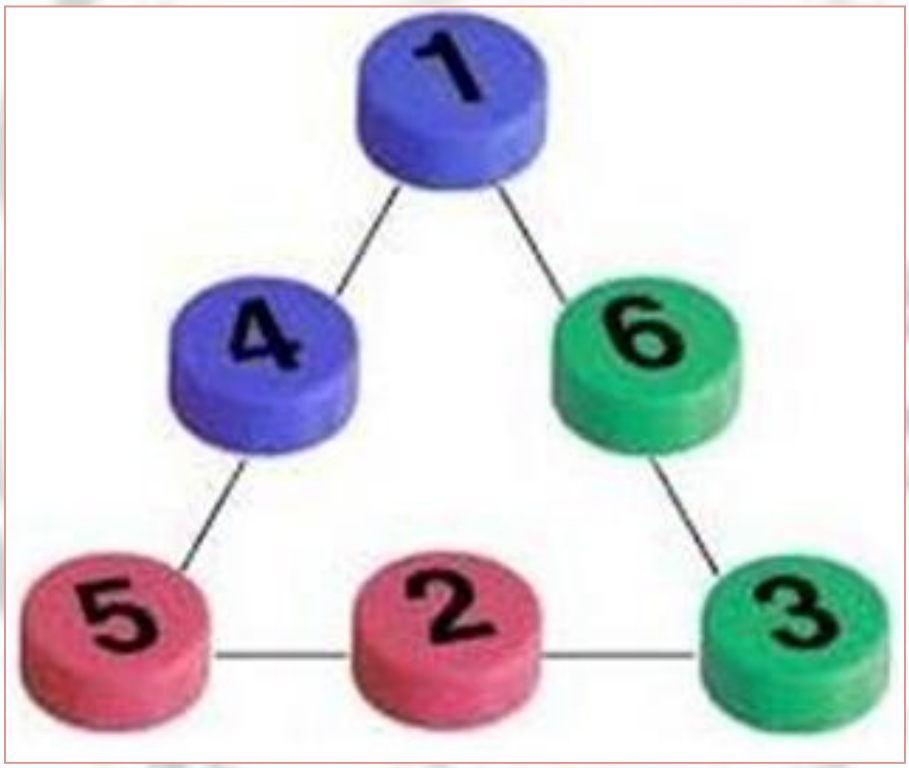
Ans - Yes small bulbs are more than big bulbs.

(397 big bulbs <441 is small bulbs).

Activity

- Write the number 1, 2, 3, 4, 5, 6 in the triangle formation , so that the sum ofthe numbers on each side of the figure is**10** . No number should repeat.

For example



Chapter - 4

Long and Short

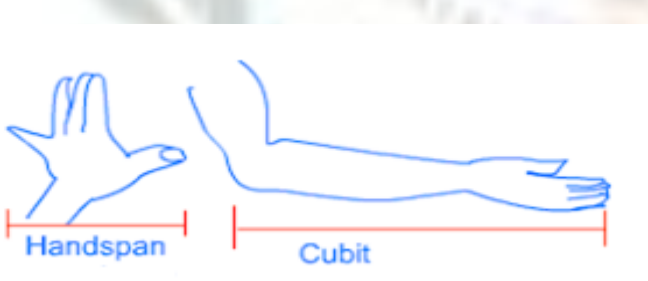
➢ KEY POINTS TO REMEMBER

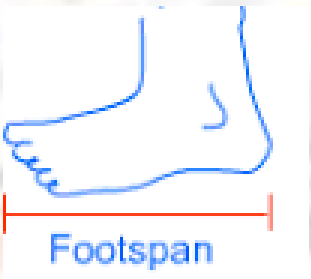
- ❖ **Introduction :Units of measurement**
- ❖ **Find the length of given objects using standard units of measurement.**
- ❖ **Conversions.**
- ❖ **Draw a line using centimeter (cm) scale.**
- ❖ **Activity**

➢ Introduction – Units of measurement

Thereare2 types of units of measurement.

1) Non standard units of measurement- Non standard units of measurement arehandspan,cubit,footspanetc.





2) **<u>Standard units of measurement</u>** –The standard units of measurement are millimeter, centimeter, metre, kilometer.

1 centimetre= 10 millimetre

1metre=100centimetres

1 kilometre= 1000 metres

Here :-

Centimeter is denoted by **cm**.

Metre is denoted by **m**.

Kilometre is denoted by **km**.

Millimetre is denoted by **mm**.

❖ **Findthelengthofgivenobjectsusingstandardunitsof measurement. (cm or m)**

1) Width of a computer screen. **<u>cm</u>**
2) Length of a pagadi worn by Sikhs.**<u>m</u>**
3) Height ofa1year old child. **<u>cm</u>**
4) Length of a banana.**<u>cm</u>**
5) Height of a sugarcane. **<u>m</u>**
6) Depth of awell.**<u>m</u>**
7) Height of your mother. **<u>m</u>**
8) Distance from classroom to school gate. **<u>M</u>**
9) Length of your father's arm.**<u>m</u>**

10) Length of your fingers. _____

11) Length of a saree._____

12) Length of blackboard. _____

13) Length of keyboard of a computer. ____

❖ Conversion

A. Convert meter to centimeter.

Given 1 m = 100cm

a) 6m = **6x100=600cm.**

b) 22m = **22x100=2200cm.**

c) 71m = **71x100=7100cm.**

d) 244m = **244x100=24400cm.**

e) 128m = **128x100=12800cm.**

B. Convert centimeter to meter.

Given 100cm = 1m

1) 500cm = **500÷100 = 5 m.**

Solve -

$\frac{500}{100} = \frac{5}{1} = 5$ **m**

2) 4400 cm=**4400÷100 =44m.**

3) 2600 cm=**2600÷100 =26m.**

4) 12000 cm=**12000÷100 =120m.**

5) 86000 cm=**86000÷100 =860m.**

❖ Draw a line using centimeter scale.

For eg

Line segnment of 6 cm

a) 3 cm =

b) 5 cm =

c) 10 cm =

d) 12 cm =

e) 4 cm =

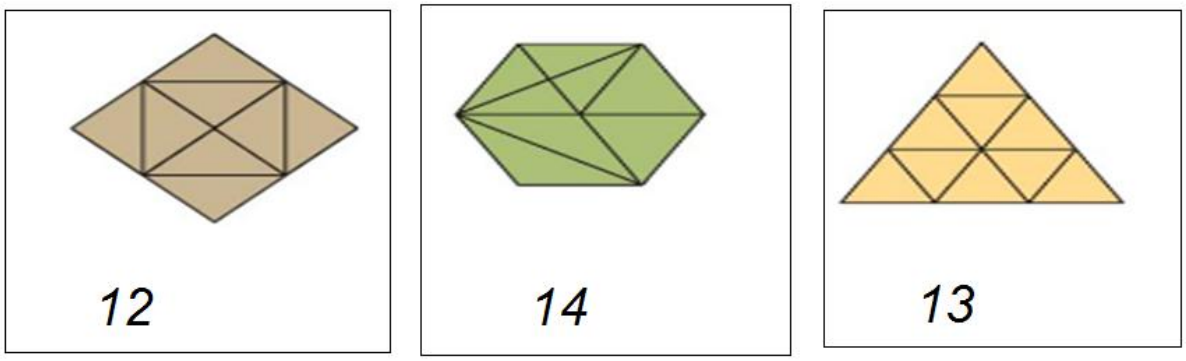
f) 7 cm =

Chapter 5
Shapes and Designs

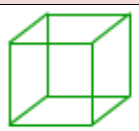
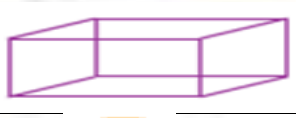
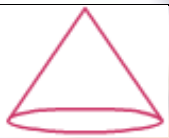
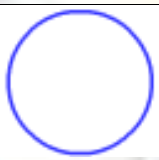
➢ KEY WORD TO REMEMBER

- How many triangles are there?
- Find faces, edges and corners of shapes.
- Fill in the blanks.
- Tangram.
- Colour the clown. Circle in blue, square in green, triangle in red and rectangle in yellow.
- Activity

➢ How many triangles are there?



❖ **Find faces, edges and corners(vertices) of shapes.**

Names	Shapes	Faces	vertices	Edges
Cube		6	8	12
Cuboid		6	8	12
Cylinder		2	0	2
Cone		1	1	1
Sphere		0	0	0

❖ **Fill in the blanks.**

1) A cone ice-cream has the shape of **cone.**
2) An erase rhas the shape of **cuboid.**
3) The shape ofa ball is **sphere.**
4) The tubelight has the shape of **cylinder.**
5) A dice has the shape of **cube.**
6) Where two faces of a solid meet is called its **edge.**
7) Atrianglehas**3**corners.

8) All the sides of a **square** are equal.

9) A cone has **1** faces.

10) **Opposite** sides of are rectangle are equal.

11) A circle has **no vertices.**

12) Top view of a cylinder is a **circle**.

13) Solids are also called as **3 – D** figures.

❖ Tangram.

The tangram is an old Chinese puzzle .From the pieces of the tangram, we can make many shapes of animals ,people and things.

- **Use the below 7pieces tangram and answer the following questions that follows.**

1. Which piece is in the shape of square?

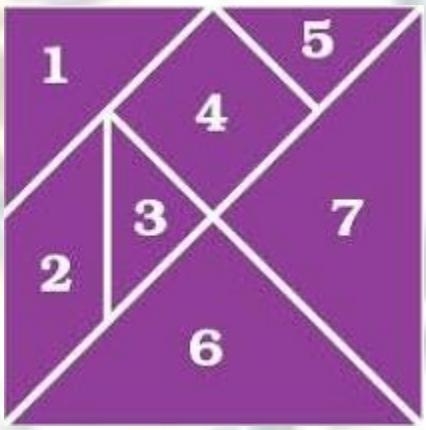
Answer - **4 number piece**

2. Which pieces are in the shape of triangle?

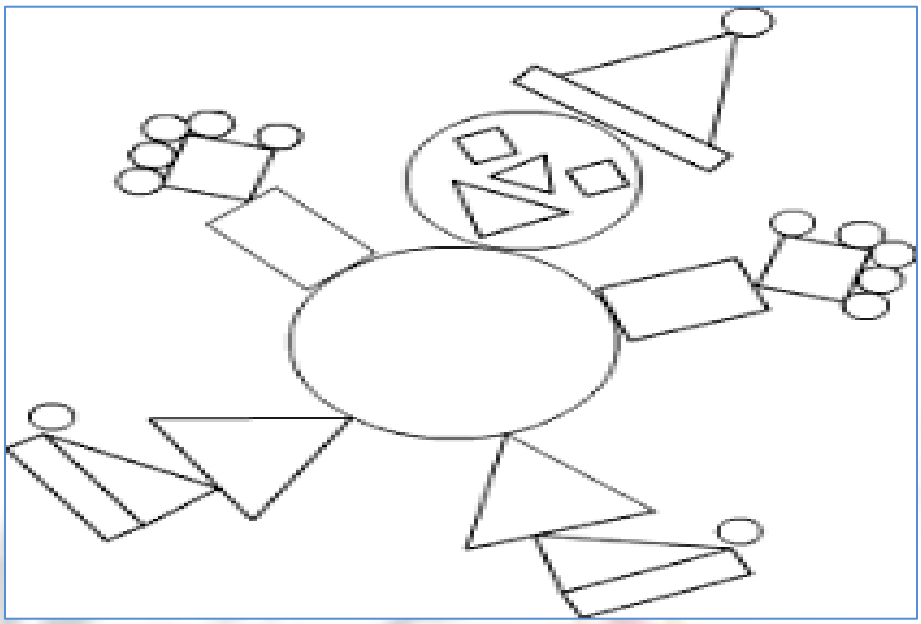
Answer - **1 , 3 , 5 , 6 and 7**

3. How many triangles are there in the set?

Answer - **5 triangle**.

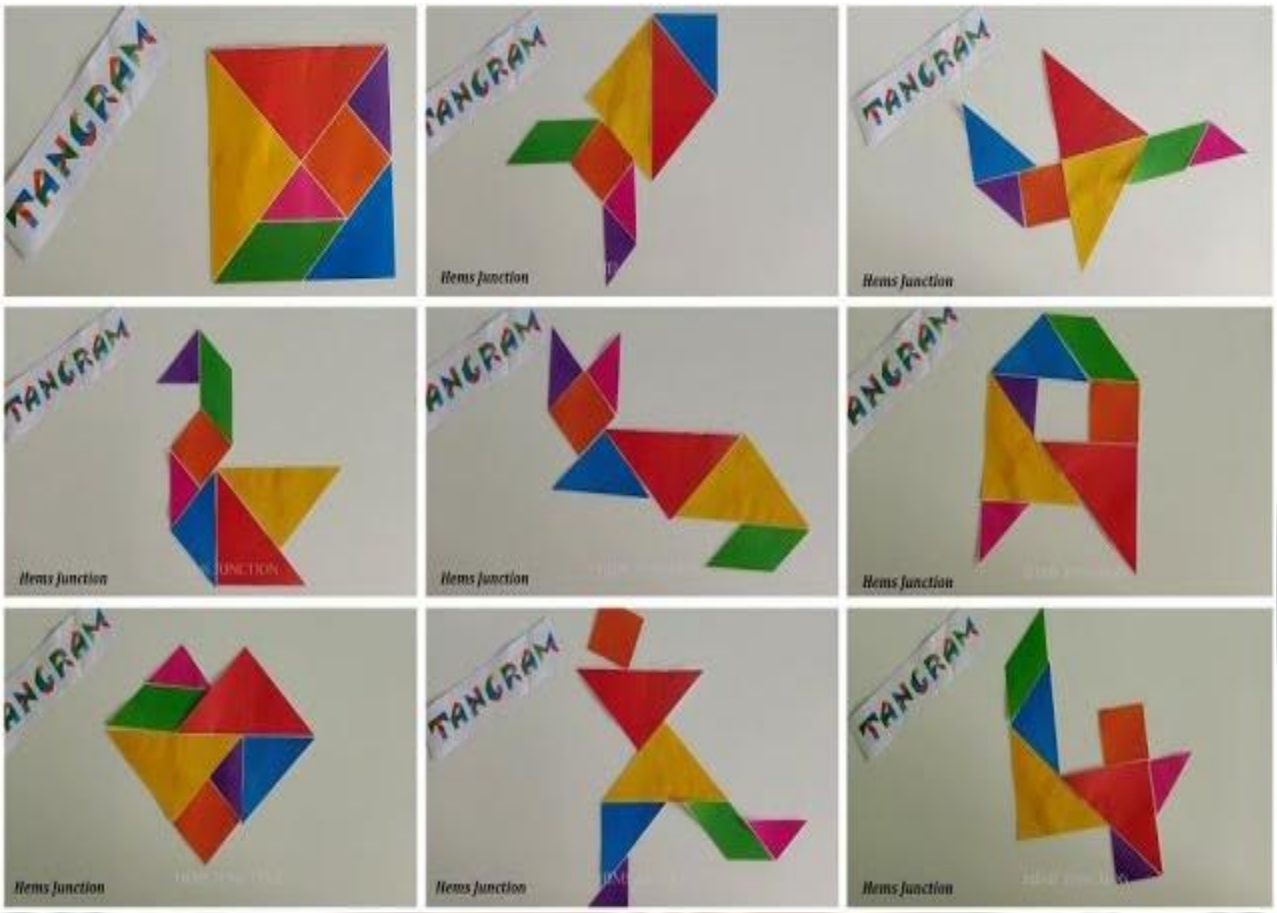


➢ **Colour the clown. (circle - blue, square - green, triangle -- red , rectangle – yellow)**



Activity

- Make a tangram using different shapes**.**



Chapter 6

Fun with Give and Take

➢ KEY POINTS TO REMEMBER

- **Find the differences.**
- **Subtract and check your answer.**
- **Count to subtract.**
- **Word problems.**
- **Activity**

❖ Find the differences.

$$\begin{array}{r} {\scriptstyle 7\ \ 18} \\ 8\,\not{8}\,\not{2} \\ -\ 4\ 9\ 1 \\ \hline 3\ 9\ 1 \end{array} \qquad \begin{array}{r} {\scriptstyle 7\ \ 17} \\ 7\ 8\,\not{7} \\ -\ 5\ 3\ 8 \\ \hline 2\ 4\ 9 \end{array}$$

$$\begin{array}{r} {\scriptstyle 8\ \ 11\ \ 16} \\ 9\,\not{2}\,\not{6} \\ -\ 6\ 5\ 8 \\ \hline 2\ 6\ 8 \end{array} \qquad \begin{array}{r} {\scriptstyle 5\ \ 14\ \ 16} \\ 6\,\not{5}\,\not{6} \\ -\ 4\ 6\ 7 \\ \hline 1\ 8\ 9 \end{array}$$

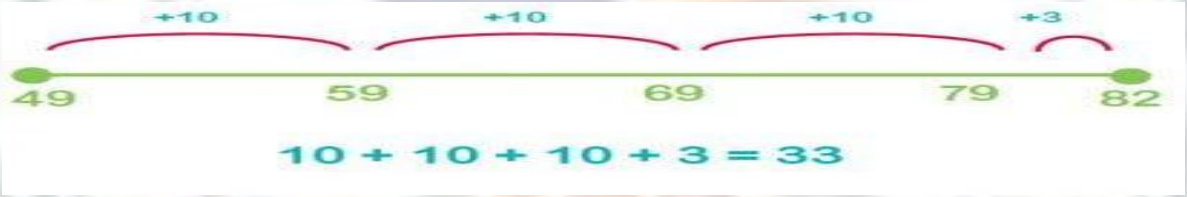
a) 335 – 126
b) 946 – 234
c) 200 - 156

❖ Subtractandcheckyouranswer.

2 3 6 − 1 1 4 = 1 2 2 1 2 2 + 1 1 4 = 2 3 6	3 10 3 4 0 − 0 2 8 = 3 1 2 1 3 1 2 + 0 2 8 = 3 4 0	5 10 8 6 0 − 6 2 1 = 2 3 9 1 2 3 9 + 6 2 1 = 8 6 0
4 16 7 5 6 − 5 4 7 = 2 0 9 1 2 0 9 + 5 4 7 = 7 5 6	5 18 4 6 8 − 1 3 9 = 3 2 9 1 3 2 9 + 1 3 9 = 4 6 8	4 4 8 − 2 4 4 = 2 0 4 2 0 4 + 2 4 4 = 4 4 8

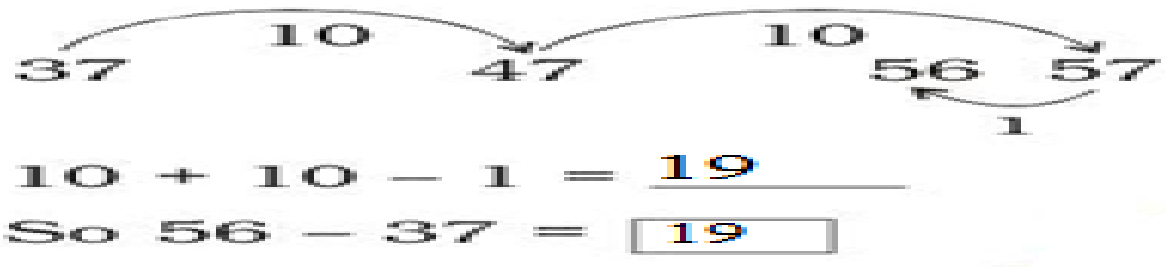
❖ **Count to subtract.**

a) **82– 49= 33**



b) **93 – 67 = 26**

c) **56 – 37 = _____**



d) **90 – 50 = ____**

e) **60 – 20 = ____**

❖ Word problems.

1) Arvind has read 69 pages of a story book. Gouri has read 95pages of that story book.Who has read more pages and how many more?

Sol:

	8 15	
	9 5	pages
-	6 9	pages
	2 6	pages

- **Gouri has read more pages and are 26 pages.**

2) Reena noted the electricity meter reading of her house. Last month's reading was 118 units.Thismonth'sreadingis193 units .How much electricity did she use in one month?

Sol:

	8 13	
	1 9 3	this month reading
-	1 1 8	last month reading
	0 7 5	units

- **She has used 75 units of electricity.**

3) KhusbooboughtashirtforRs125andtrousersforRs165.Howmuchmoneydidshe spend altogether?

Sol:

	1	
	Rs 125	bought a shirt
+	Rs 165	bought a trousers
	Rs 290	She spend in all

- **She hasspentRs290altogether.**

4) Grey saved Rs743 for his birthday party. His father gave him some more money. If grey has Rs 1336 now, then how much money did his father give?

Sol: Grey saved in party =Rs 743

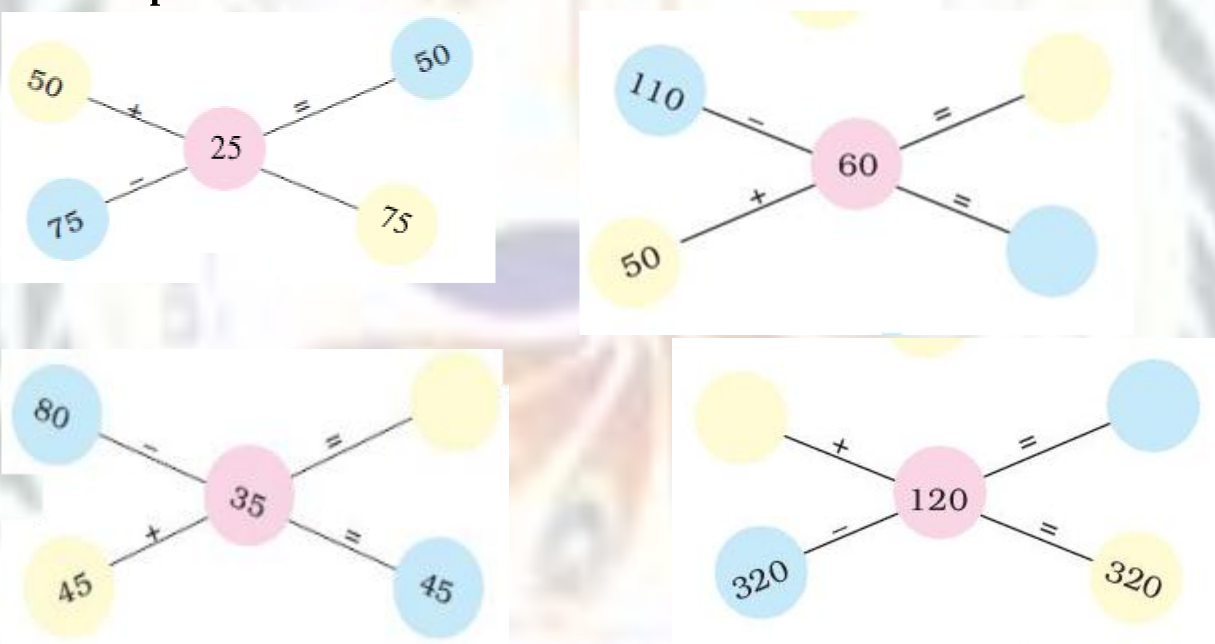
Grey father gave him =Rs 1336

	0	2	13	
	~~1~~	~~3~~	~~3~~	6
−		7	4	3
		5	9	3

- **Total money left with him Rs 59**

➢Activity.

Mental Maths. (See text book page no. 86)
For example

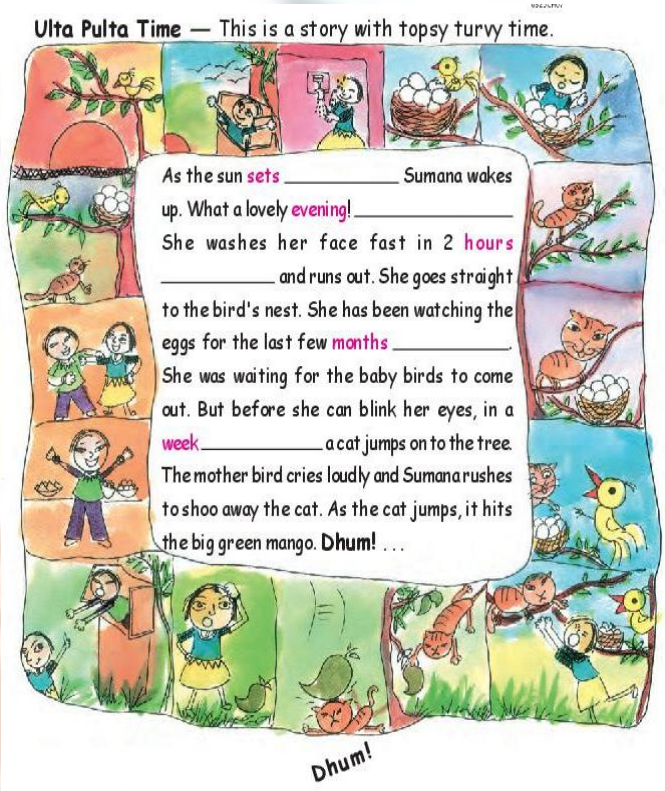


Chapter 7

Time Goes on.....

➢ KEY POINTS TO REMEMBER

- ❖ **What is time?**
- ❖ **How long does it take?**
- ❖ **Match the following.**
- ❖ **Fill in the blanks.**
- ❖ **Write the units am or pm.**
- ❖ **Write the time in the box for the following clocks.**
- ❖ **Draw the clocks for the following time.**
- ❖ **Activity.**

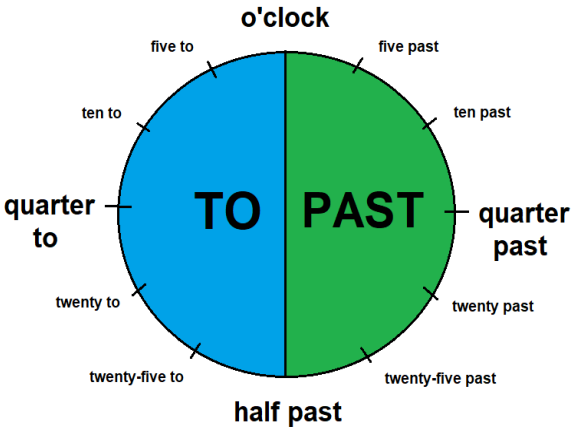


➢ What is time?

Time is the ongoing sequence of events taking place. The basic unit of time is the second. There are also minutes, hours, days, weeks, months and years. We can measure time using clocks.

- The short hand is called the hour hand.

The long hand is called the minute and.



* **How long does the different things that take different time (minutes,hours,days, seconds, months)**

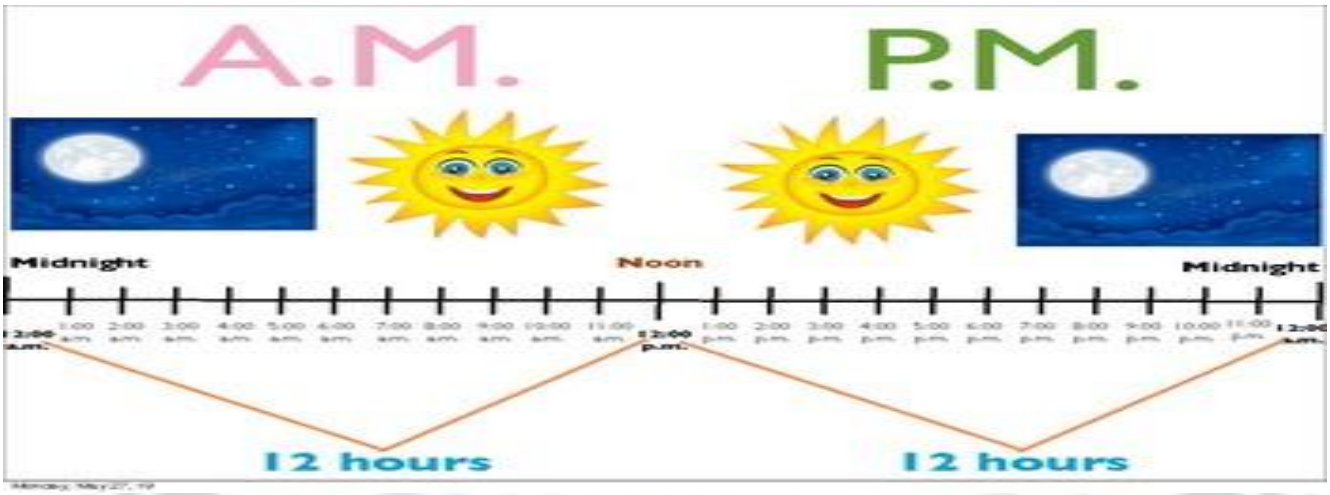
* **Match the following:**

1) Reading a book	a) Takes years
2) Brushing teeth	b) Takes hours
3) Growing a sapling	c) Takes seconds
4) Learning dance	d) Takes months
5) Washing clothes	e) Takes weeks
6) Get the lunch out of the bag.	f) Takes minutes

(1 - e), (2 - f), (3 - a), (4 - d), (5 - b), (6 - c).

* **Fill in the blanks:-**

1) There are **12** months in a year.
2) **January** is the first month of the year.
3) **4** months have 30 days.
4) **7** months have 31 days.
5) **February** has 28 or 29 days.
6) The months having 31 days are **January,March,May,July,August,October, December.**
7) The months having 30 days are **April,June,September,November.**
8) **May** and **June** comes between April and July.
9) Republic days falls in the month of **26th January.**
10) Independence Day is celebrated in the month of **15th August.**
11) There are **24** hours in a day.
12) There are **7** days in a week.
13) There are **366** days in a leap year.
14) In one hour **60** minutes.
15) In one minutes**60** seconds.



* **Write the units am or pm:**

Am means Ante (before) meridiem.

Pm means Post (after) meridiem.

*** Write the time in box for the following clocks.**

5:10

Ten past 5

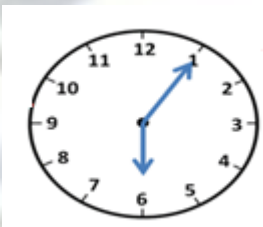
1:15

10:45

*** Draw the clocks for the following time.**

8:20

7:40



6:05

➢ Activity

See the calendar of March 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Now, answers the questions by using above calendar month.

i. How many days are there in this month? _____31_____

ii. How many Sundays are there in this month? _____

iii. On which day does this month start? _____

iv. Is 13th a Wednesday? _____

v. How many Wednesday are there ? _____