Instructions

1. 15 minutes cool-off time is allotted for reading and understanding the activities.
2. Answer **any SIX** activities from the **EIGHT** activities given.

Activity – 1 – Let's find out

a	b	c	d
$2 \times 2 \times 2$	$3^2 \times 3^2$	4^2	9^2

e	f	g	h
4^3	64	2^2	8

The number in the circles are interrelated.

a) Which circle match with the value of 'a'?

b) Which circle match with the value of 'b'?

c) Which among these circles are equivalent to 4 times of 'c'.

d) Find the value of $f \div c$

Activity – 2 – Super market

The investment and sale price of certain items are given below.

Sl. No.	Item	Investment (Rs.)	Transporting charges (Rs.)	Sale price (Rs.)
1	Fridge	12000	200	13000
2	Table	6800	200	7200
3	Washing Machine	7600	400	8400

a) Find the profit on selling the fridge?

b) Find the profit percentage on the sale price of the washing machine?

c) Salim took a loan of rupees 13000 at the rate of 8% interest from Dhanlakshmi Bank for buying a fridge. How much he has to pay back after 2 years?

Activity – 3 – Algebraic form
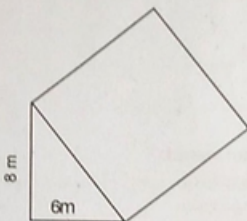
$$1 \times 1 + 1 = 2$$
$$2 \times 2 + 1 = 5$$
$$3 \times 3 + 1 = 10$$
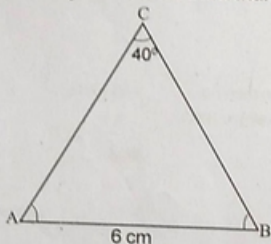$$\dots \times \dots + \dots = \dots$$

a) Write the next line of the pattern.

b) Find the answer of the tenth line without doing calculations. Explain the method used for finding the answer.

c) Write the algebraic expression of the above pattern.

Activity – 4 – Gopu's Plot

a) Look at the figure below. Gopu's plot is in the shape of a right angled triangle. He purchased the nearby square plot also. Find the area of the square plot he bought?

b) Write the relation between the area of the square above and the area of squares drawn on the sides of the triangle.

8 m

6m

Activity – 5 – Construct a triangle

C

40°

A

6 cm

B

In $\triangle$ ABC $\angle A = \angle B$

a) Find the measures of $\angle A$ and $\angle B$

b) Construct another triangle with equal measure on three angles.

c) Write the peculiarities of the sides of the triangle drawn.
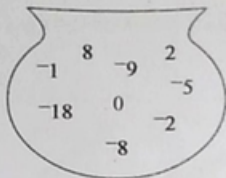
Activity – 6 – For her children

Santha decided to give her salary to her children Ravi and Shinu in the ratio 3:2 . If Ravi gets Rs.4500, then.

a) Find the amount Shinu gets?

b) How much salary does Santha get?

Activity – 7 – Let's find out

The answers for the items in column 'A' are given in the nearby vessel. Find out the correct answer and write it in column 'B'.

	A	B
a)	$^-2 + ^-3$	
b)	$^-5 + 4$	
c)	$^-4 + 4$	
d)	$^-5 - 4$	
e)	$^-8 - ^-10$	

8   $^-9$ 2
$^-1$ $^-5$
$^-18$ 0 $^-2$
         $^-8$

Activity – 8 – Donation

It was decided to buy flower pots to make a school garden. Each student can donate an amount they wish.The donation received from each class is represented using a bar graph and displayed in the school notice board.

a) Find the amount donated by students in each class.

b) Draw a pie-diagram showing the amount students have donated.