

Class : 6

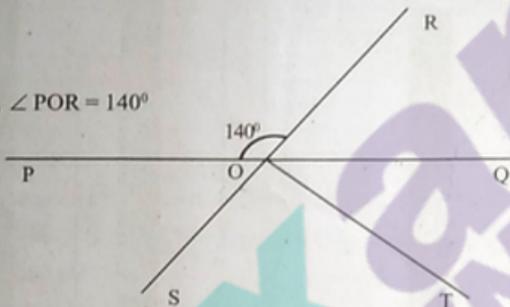
Mathematics

Time : 2 hours

Instructions

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

Activity – 1 – Joining Angles

In the figure, $\angle POR = 140^\circ$ 

- Find $\angle QOR$.
- Write a linear pair from the figure.
- If $\angle ROT = 90^\circ$, find $\angle TOS$.
- Find angles equal to $\angle POR$ and $\angle POS$.

Activity – 2 – Income

Venu spend Rs.12,000 from his monthly earnings on various items. His expenditure is given below.

Items	Percentage spend
Food	30%
Cloth	15%
Education
Others	35%

- What percentage of expenditure does he spend for education?
- Find the amount he spend for each item.

Activity – 3 – Charity

The following bar graph represents the donation given to Navjeevan Charity programme by students of division A and division B of five classes in a school. Find the answers from the figure to the questions given below.



- What is the total amount given by Class VI?
- How much more amount did the students of Class IX give for charity than Class VIII?
- Which classes gave the same amount of donation? Find the amount.

Activity – 4 – Water Tank

A rectangular water tank has its inner length 5m, breadth 2m and height 1m. The tank contains water at a height of 50cm.

- What is the capacity of the tank?
- How many litres of water is there in the tank?
- How much more water is needed to fill the tank?

Activity - 5 - Match stick Math

The following table shows the number of rectangles and number of match sticks needed to make each rectangle.

Figure	Number of rectangles	No. of match sticks	Relation between No. of match sticks and rectangles
	1	4	$3 \times 1 + 1 = 4$
	2	7	$3 \times 2 + 1 = 7$
	3	10	$3 \times 3 + 1 = 10$
.....
.....

- Complete the table.
- How many match sticks are needed to make 10 rectangles?
- Write the relation between the number of rectangles and match sticks using letters.

Activity - 6 - Decimal Form

- 4.3 cm is added to 0.24 cm. Answers found by four students are given below. Who wrote the correct answer?

Anu - 4.54 cm.
Vinu - 28.3 cm.
Raju - 4.324 cm.
Ramu - 0.454 cm.

- $2.65 \times 100 = \dots\dots\dots ?$
a) 0.0265 b) 265 c) 26.500 d) 26500
- What is the decimal form of $\frac{1}{1000}$?
a) 0.1 b) 0.01 c) 0.001 d) 0.0001
- Which is the fractional form of 0.70 ?
a) $\frac{7}{100}$ b) $\frac{7}{10}$ c) $\frac{70}{10}$ d) $\frac{070}{1000}$

Activity - 7 - Harvesting

The average monthly harvest of tapioca for the year 2018 in Cheruthazham Panchayath is 750 quintal. The first spell of harvest was from June to September (4 months). They got 2400 quintal.

- What is the average monthly harvest on the first?
(a) 600, b) 200, c) 800, d) 250
- What is the total weight of tapioca harvested in 2018?
- What is the average monthly harvest of tapioca for the remaining 8 months?

Activity - 8 - Sports Meet

The distance covered by four students in a long jump competition in school sports meet is given below.

Name	Distance
John	3 m. 45 cm.
Rahim	3 m. 50 cm.
Rajesh	3 m. 5 cm.
Babu	3m. 30 cm.

- Write the distance covered by each student in decimal form.
- Who covered the longest distance?
- Find the difference between the longest and shortest distance.