

## Annual Evaluation 2017-18

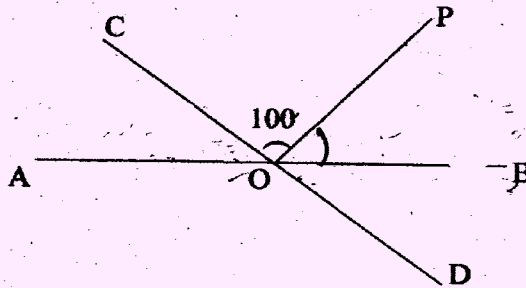
### Mathematics

Standard 6

Time: 2 Hours.

**Instructions**


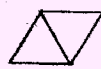
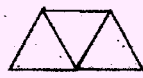

1. 15 minutes cool off time is to be allotted to read and understand the questions.
2. Answer any six activities from the given eight.

**Activity 1**

- a) In the figure  $\angle AOC = \angle POB$  what is the measure of angle BOD?
- b) Write the measure of  $\angle AOD$ ?
- c) Which is the opposite angle of  $\angle BOC$ ?

**Activity 2**

In the table, the number of triangles and the number of matchsticks used for making the triangles are given.

Picture	Number of Triangles	Number of Match sticks
	1	3
	2	$2 \times 2 + 1 = 5$
	3	.....
	4	.....

- Complete the table.
- How many matchsticks to be needed to make 12 triangles.
- What is the relationship between the number of triangles and the number of matchsticks.
- If 't' represents the number of triangle and 's' represents the number of sticks, then what is the relation between 't' and 's'.

### Activity 3

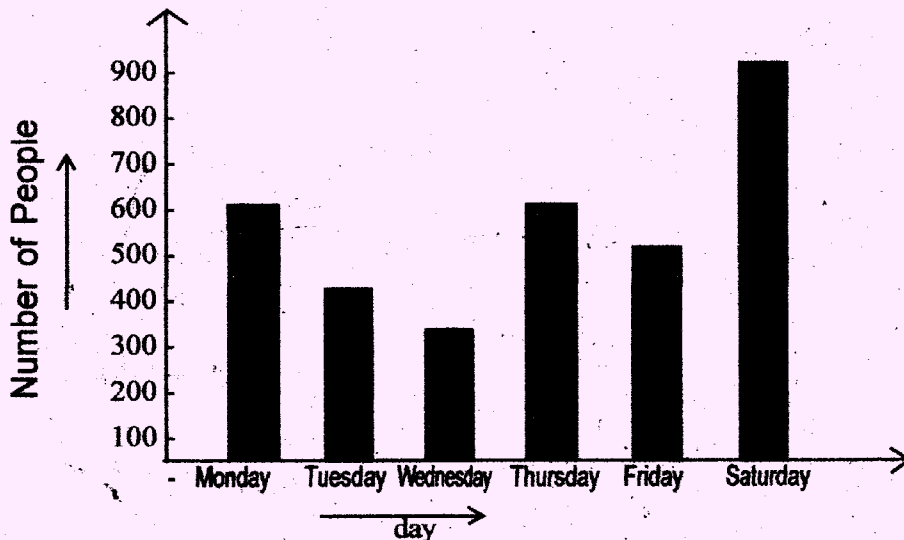
Scores of 4 students in Mathematics of a UP school is given below. PTA decided to give a scholarship to the students who score more than an average of 30.

Name of student	I term	II term	III term	Average Score
Binu	25	29	39	
Anil	21	35	31	
Suni	32	ab	26	
Mini	24	30	21	

- Complete the table by finding the average score.
- Who is eligible for the scholarship?

### Activity 4

The bar diagram below indicates the number of people who came to see the jawahar circus in six days of last week. By analysing the bar diagram, write the answers of the questions given below.



- On which day more number of people came to see the circus.
- On which days equal number of people came to see the circus.
- Make a table showing the number of people who came to see the circus in each day.

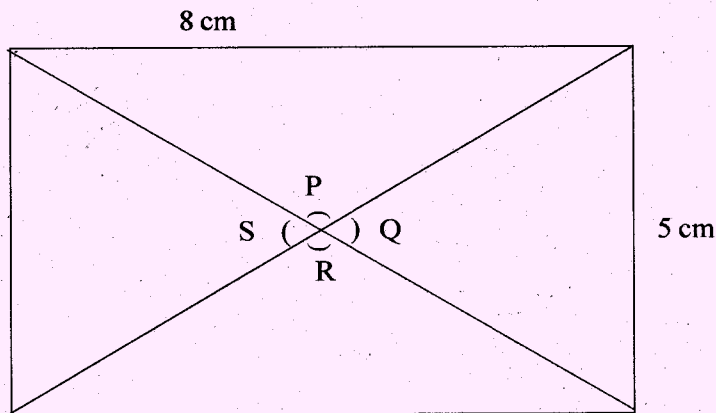
#### Activity 5

The Head master of Sneeha Deepam School is busy with consolidating the details of uniform distribution. 60% of total students are girls. The amount utilized for boys in buying uniform is Rs. 38400/-. Find the answers for the following questions?

- What is the percentage of boys?
- What is the total amount allotted to the school?
- What is the amount utilized for giving the girls uniform?
- The amount allotted for a student is Rs. 400/-. What is the total number of students in the school?

#### Activity 6

Rectangle ABCD of length 8 cm and breadth 5 cm is given below. Opposite corners are joined together in this rectangle.



- What is the perimeter of the rectangle?
- If  $l$ ,  $b$  and  $p$  represents the length, breadth and perimeter respectively, then write the relation between  $l$ ,  $b$  and  $p$ .
- If the measurement of angles formed at centre are P, Q, R & S and the sum of these angles is  $360^\circ$ , then write any 3 relationship between the angles.

Eg:  $360^\circ - S = P + Q + R$

## Activity 7

Complete the table given below.

Fractional form	Decimal form	Percentage
$\frac{1}{4}$	0.25	25 %
—	0.6	60 %
$\frac{4}{5}$	—	—
—	—	75 %

## Activity 8

Rajan spent 20% of his income for educational purpose. This amount is Rs. 4000.  
He spent 25% of this amount for buying books.

- What amount is used for buying books?
- What is the total income of Rajan?
- What percentage of his total income is used for buying books?