

SECOND TERM 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 activities before evaluation begins.
2. Answer any six activities from the following.

Activity-1

In the diagram line ON and PM cut across each other. Among the four angles formed, one angle is given.



- a. Find the measurement of $\angle PCN$, $\angle MCN$, $\angle OCP$
- b. Write any one pair of opposite angles ?
- c. Find the linear pair of $\angle OCM$?

Activity-2

Table below contains heights of 5 students of Manipuram L P School.

Name	Heights (In meters)
Sunitha	1.43
Suneer	1.5
Sajith	1.48
Sneha	1.39
Aneesh	1.05

Students should stand based on their heights from lowest to highest in the parade. The student who has the lowest height will stand in front and the highest will stand at the back.

- a. Who will stand first?
- b. Who will stand last?
- c. Write the names of the students in the increasing order of their heights?
- d. Write the difference in heights in cms, between the first and the last student in the row?

Activity - 3

To make a door for a house, we need 5 wooden sheets with 2 m length, 1 m breadth and 5 cm width. The cost of 1 cubic m wood is Rs. 8000/-. Find the total cost for the woodensheets. (Write all the steps in detail)

Activity - 4

Given below is a chart preparing for Maths fair.

Number	Prime factors	Number of 2's	Number of 3's	Number of 5's	Total no. of factors
96	$2 \times 2 \times 2 \times 2 \times 2 \times 3$	5	1	0	12
144	$2 \times 2 \times 2 \times 2 \times 3 \times 3$	4	2	0	15
243	$3 \times 3 \times 3 \times 3 \times 3$	0	5	0	6
180					
200					
128					

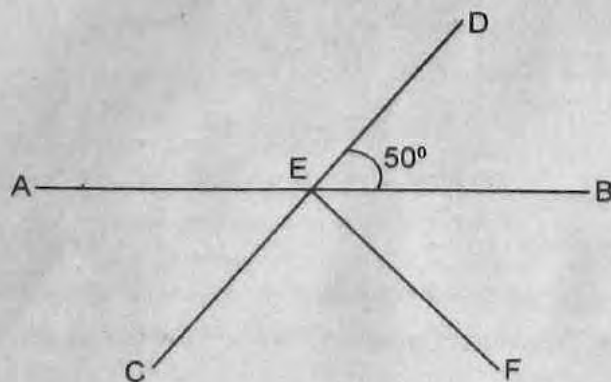
- Complete the table.
- What is the relation between the number of prime factors and total number of factors of a number.

Activity - 5

Damu cultivated paddy in his field this year. He got 35.8 kg grains from the first harvest and 44.7 kg from the second harvest. After boiling, drying and crushing he got 600gm. of rice from 1 kg. grain. Then,

- Find the total production of grams from the two harvests.
- After boiling, drying and crushing of grains, what will be the total quantity of grains he received?
- If Damu distributed the rice to his 5 sons equally, how much rice will each one get?

Activity-6



In the diagram $\angle BED = \angle BEF$ are equal. Find the other angles?

$\angle AED = \dots\dots\dots$, $\angle AEC = \dots\dots\dots$, $\angle CEF = \dots\dots\dots$,

$\angle CEB = \dots\dots\dots$, $\angle FED = \dots\dots\dots$

Activity - 7

If $4258 \times 19 = 80902$, answer the questions given below

- a. $425.8 \times 19 = \dots\dots\dots$
- b. $4258 \times 0.19 = \dots\dots\dots$
- c. $42.58 \times 1.9 = \dots\dots\dots$
- d. $0.4258 \times 0.19 = \dots\dots\dots$
- e. $4.258 \times 19 = \dots\dots\dots$

Activity - 8

Athul wrote the factors of a number as follows.

[1, 2, 4, 8, 16, 32, 128, 256]

- a. Factors of which number did Athul find?
- b. One factor is missing from these. Find that factor.
- c. Write all factors of 512 by using the factors of 256 ?
- d. How many factors does the number 256×3 have?