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SAMAGRA SHIKSHA, KERALA

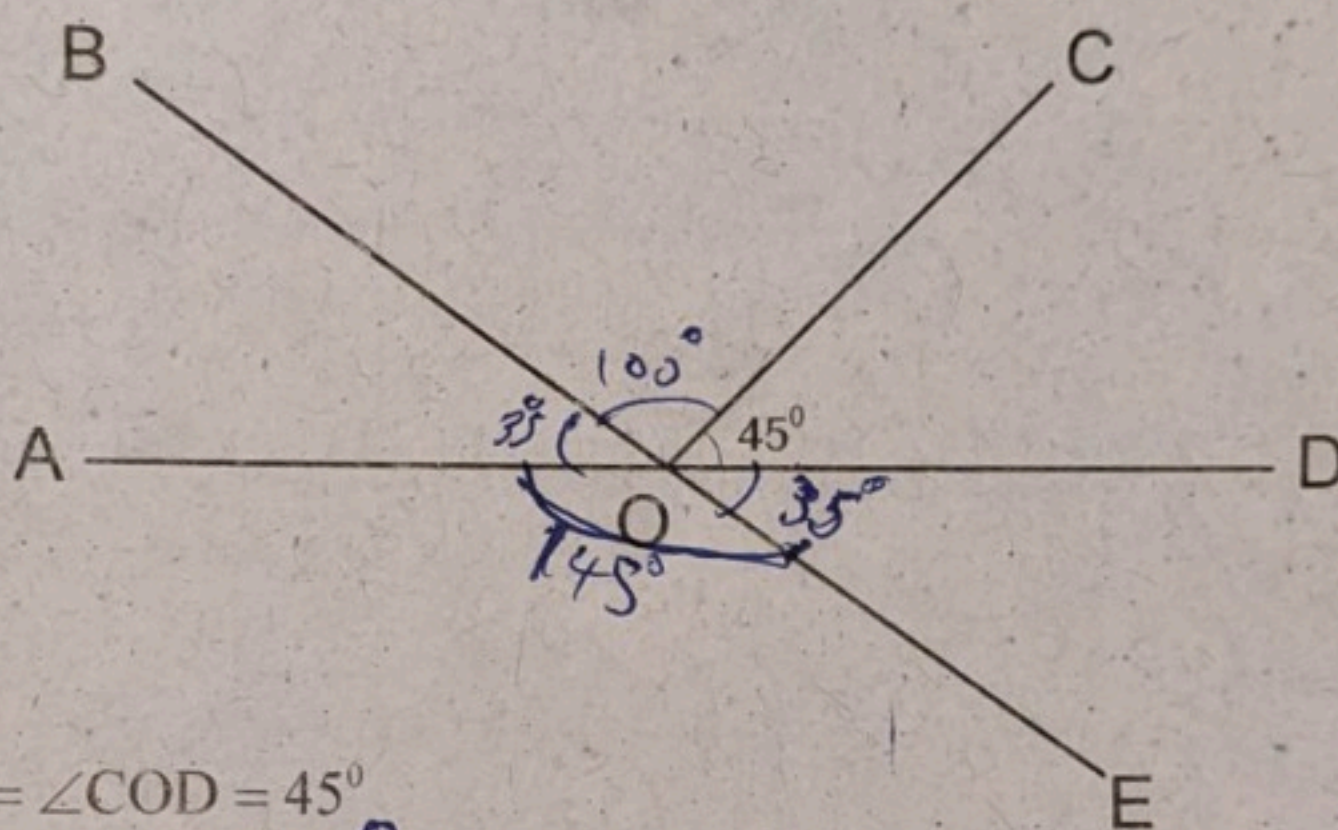**Annual Evaluation 2019-20**

Class : 6

Mathematics

E 603

Time : 2 hours

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 - Can you find?

In the figure $\angle AOB = \angle COD = 45^0$

A) Find the measure of $\angle BOC$. 100°

B) Which of the following is the opposite angle of $\angle AOE$?

   (a) $\angle BOC$ b) $\angle COD$ c) $\angle BOD$ d) $\angle DOE$

C) Find the measure of $\angle DOE$ 35°

D) Find the measure of $\angle AOE$ 145°

E) Write any one linear pair from the figure.

Activity 2 - Treasure Hunt

   Unnikuttan is trying to reach the treasure. The door to the treasure will be opened only through the correct answers of the following questions. Help Unnikkuttan to find the way to the treasure.
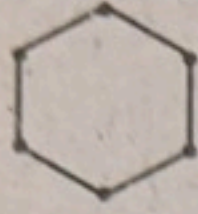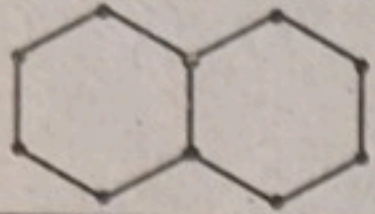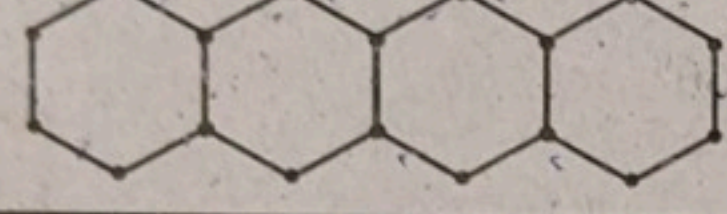
A) $28.6 \div 4$

B) $251.97 \div 100$

C) $6.56 \div 0.8$

D) $16.112 \div 3.8$

E) $\dfrac{2.8 \times 3.2}{0.4}$

Activity 3 - Match Stick Math

The table given below shows the details of regular hexagons made using match sticks.

Sl. No		Number of regular hexagons	Number of match sticks
1		1	6
2		2	11
3		3	16
4		4	21
5		5	26

- A) Complete the table.

B) Write the relation between the number of regular hexagons and the number of match sticks used.

C) Write this relation using letters (Algebra).

D) How many matchsticks are required to make 100 such regular hexagons in a row.

Activity 4 - Complete the Table

Details of marks obtained by Baby for the half yearly examination are given below. Complete the table. (Explain the method of finding the answers)

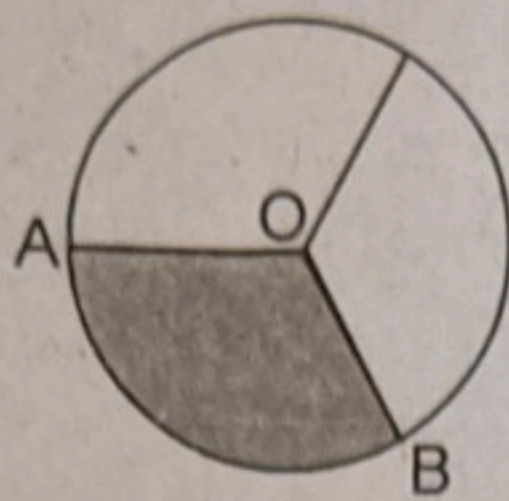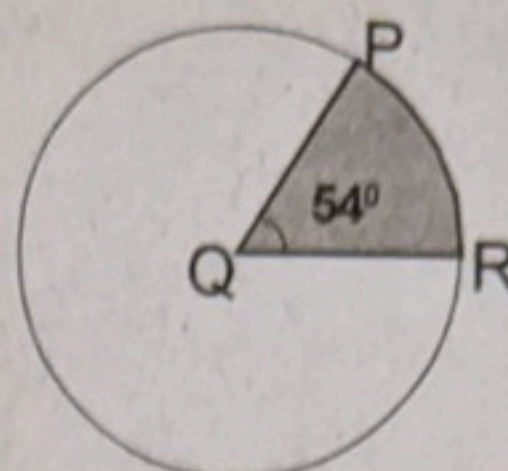| Subject	Total Score	Score obtained	Score Percent
Malayalam	25	20	80
English	25	18	
Hindi	25		84
Science		24	60

Activity 5 - Circle and Parts

Fig 1

Fig 2

Circle in Fig 1 is divided into three equal parts.

A) What part of this circle is shaded?

B) Which of the following is the measure of $\angle AOB$?

   a) 120^0 b) 90^0 c) 140^0 d) 60^0

C) What part of the circle is shaded in Fig 2 ?

D) What part of the circle is not shaded in Fig 2 ?
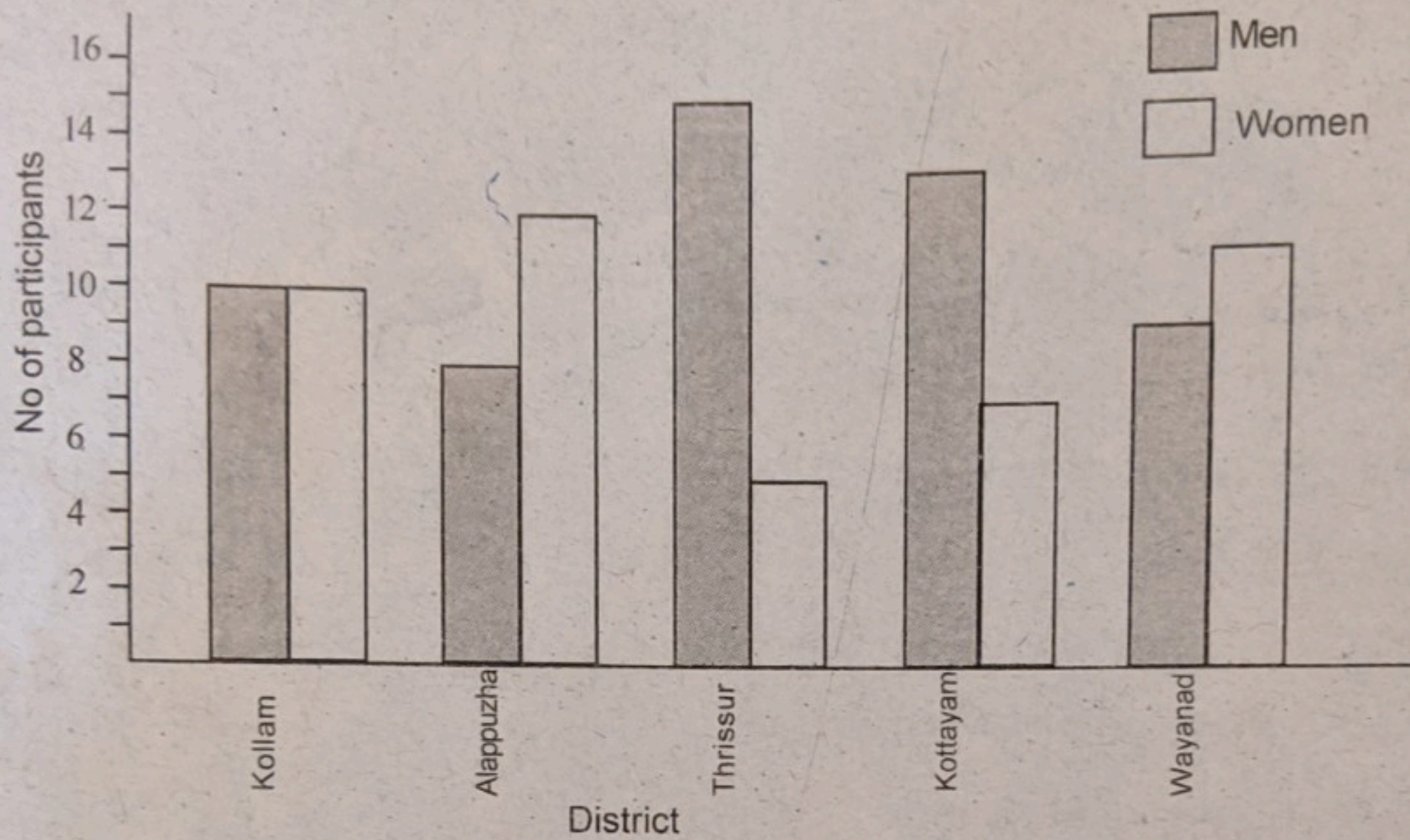
Activity 6 - Number and Factors

A) $192 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3$. Find the total number of factors of 192.

B) How many factors does the product of two distinct prime numbers have?

C) A number is multiplied by the same number. Which of the following statement is correct about the number of factors of this product?

   a) Always an odd number   b) Always an even number

   c) Can be odd or even   d) No peculiarities

D) Write all the factors of 88.

Activity 7 - Percentage Math

A) Which of the following percent is equal to $\frac{1}{8}$?

   a) $12\frac{1}{2}\%$ b) 25%   c) $6\frac{1}{4}\%$ d) 50%

B) What is the fraction equal to $66\frac{2}{3}\%$?

C) If 20% of 30 = 6 find 30 % of 20?

D) The price of an article was 40 rupees last year. Now the price increased to Rs. 50. By what percent did the price increase?

Activity 8 - Plastic Disposal

The bar graph below shows the details of participants in a training programme related to plastic disposal.

A) In which district, equal number of men and women participated in the programme?

B) In which district least number of women participated?

C) Make a table using the information from the above bar graph.

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