

## SUMMATIVE ASSESSMENT I 2025-2026

## Mathematics

Standard : VII

Time : 2 Hrs 15 minutes

## Instructions

- First 15 minutes is allotted as cool-off time. Read the questions carefully and plan the answers during this time.
- Answer all six questions. Answer all the sub questions.
- Two questions are there in Question 3 and 4. Attempt **any one**. (3A or 3B and 4A or 4B)

1.



50 litres



20 litres

A big bucket contains 45 litres of water and a small bucket contains 15 litres of water. The capacity of the big bucket is 50 litres and the capacity of the small bucket is 20 litres.

- What part of the big bucket is the capacity of the small bucket?
  - How many times the volume of water in the small bucket is the volume of water in the large bucket?
  - How much part of water in the small bucket is needed to fill the large bucket?
  - Which of the following is equal to 3 times  $\frac{1}{3}$ ?
    - $3\frac{1}{3}$
    - $1\frac{1}{3}$
    - $\frac{3}{3}$
    - $\frac{1}{9}$
- Draw a triangle of two sides of length 4 centimetres and 3 centimetres and the angle between them is a right angle.
    - Measure and write the length of the third side.
    - Which of the following statement is not correct?
      - In any triangle, the angles and their opposite sides have sizes in the same order.

- B. In any triangle, the length of the longest side is greater than the sum of the lengths of the other two sides.
- C. The sum of the measures of the three angles of any triangle is  $180^\circ$ .
- D. In any triangle, the length of the longest side is less than the sum of the lengths of other two sides.

Question 3 has two questions (3A and 3B). Attempt **any one**.

3.A. A rectangular garden has an area of  $6\frac{3}{4}$  square metres and width of  $1\frac{1}{2}$  metres.

- a. What is the length of the garden?
- b. Write the length and the width of garden in its times and parts.
- c. Which of the following is the reciprocal of  $1\frac{2}{3}$ ?

- A.  $\frac{2}{3}$                       B.  $\frac{5}{3}$                       C.  $\frac{3}{5}$                       D.  $\frac{3}{2}$

**OR**

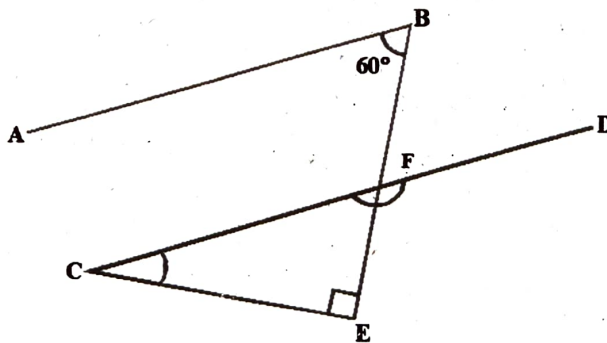
3.B. 12 rods of  $1\frac{1}{2}$  metres long and 18 rods of  $\frac{1}{3}$  metre long are needed to make a window.

- a. How many  $\frac{1}{3}$  metre long rods can be cut from a 1 metre rod?
- b. How many rods of 6 metres long are needed to make the window?
- c. Which of the following is equal to  $\frac{3}{4} \div \frac{1}{2}$ ?

- A.  $\frac{3}{4} \times \frac{1}{2}$                       B.  $\frac{3}{4} \div 2$                       C.  $\frac{4}{3} \div 2$                       D.  $\frac{3}{4} \times 2$

Question 4 has two questions (4 A and 4 B). Attempt **any one**.

4.A.



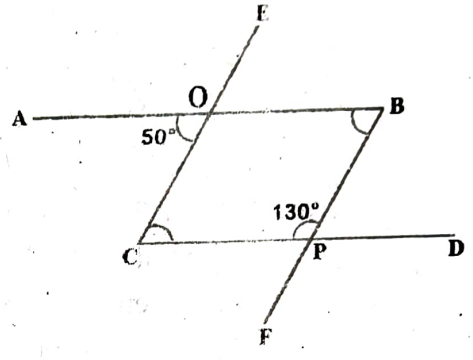
- a. In the figure, lines AB and CD are parallel. Angle CEF is a right angle. Angle ABF is  $60^\circ$ . What are the measures of the other two angles of the triangle?
- b. Find angle BFC.
- c. Using the measures of the angles, prove that the lines AB and CE are not parallel.

- d. Which of the following statement is not correct regarding parallel lines?
- A. The perpendicular distance between the parallel lines will be same everywhere.
  - B. Parallel lines will be on the same tilt with another line.
  - C. When a parallel line intersects another line, the angles formed will always be equal.
  - D. Parallel lines never intersect.

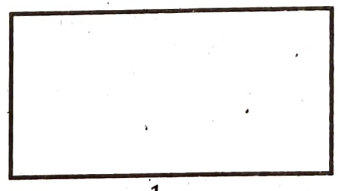
**OR**

4.B. In the figure AB, CD are parallel. Angle CPB is  $130^\circ$ . Angle AOC is  $50^\circ$ .

- a. Find  $\angle BPD$ .
- b. Find  $\angle ABP$ .
- c. Using the measures of the angles, prove that lines CE and BF are parallel.
- d. Which of the following statement regarding parallelogram is not correct?
  - A. Opposite angles are equal.
  - B. Opposite sides are equal.
  - C. Four sides are always equal.
  - D. The sum of the measures of a small angle and a large angle in the parallelogram is  $180^\circ$ .



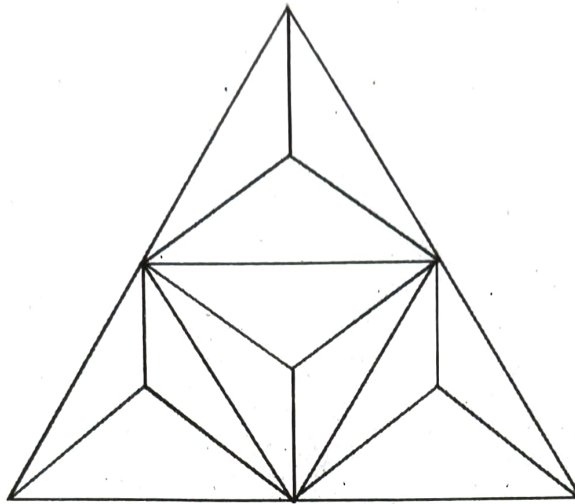
5. The length of the rectangle is  $4\frac{1}{2}$  centimetres.



$4\frac{1}{2}$  cm

- a. How many parts of  $\frac{1}{4}$  centimetre long can be made from the bottom side?
- b. The width of the rectangle is half of its length. What is its width?
- c. What is the area of the rectangle?
- d. Which of the following is equal to 2 times of  $2\frac{1}{3}$ ?
  - A.  $4 + \frac{1}{3}$
  - B.  $4\frac{2}{6}$
  - C.  $4\frac{2}{3}$
  - D.  $2\frac{2}{6}$

6.



a. Draw the pattern as given above. Shade and make it beautiful.

b. The measures of two sides of a triangle are given in the A side. Measure of the third side is given in B. Which of the following given below is correct?

- |    | <b>A</b> |       | <b>B</b> |
|----|----------|-------|----------|
| a) | 2, 4     | 1)    | 12       |
| b) | 9, 4     | 2)    | 13       |
| c) | 1, 13    | 3)    | 3        |
| A. | a - 2    | b - 3 | c - 2    |
| B. | a - 3    | b - 1 | c - 2    |
| C. | a - 3    | b - 1 | c - 2    |
| D. | a - 3    | b - 2 | c - 1    |