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.

a. What part of the big bucket is the capacity of the small bucket?

b. How many times the volume of water in the small bucket is the volume of water in the large bucket?

c. How much part of water in the small bucket is needed to fill the large bucket?

d. Which of the following is equal to 3 times $\frac{1}{3}$?

A. $3\frac{1}{3}$ B. $1\frac{1}{3}$ C. $\frac{3}{3}$ D. $\frac{1}{9}$

2. a. Draw a triangle of two sides of length 4 centimetres and 3 centimetres and the angle between them is a right angle.

b. Measure and write the length of the third side.

c. Which of the following statement is not correct?

A. 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°.

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?

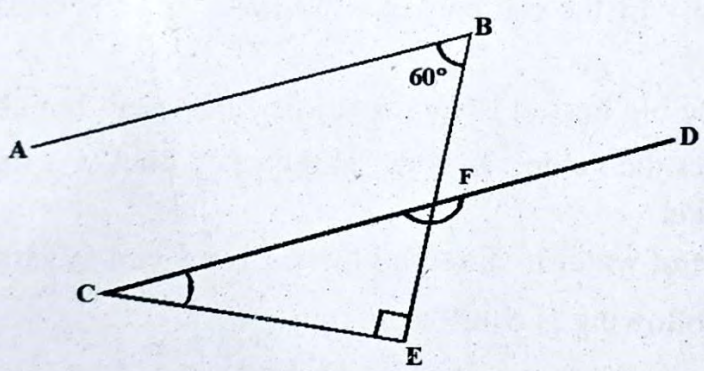
b. How many rods of 6 metres long are needed to make the window?

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°. 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.

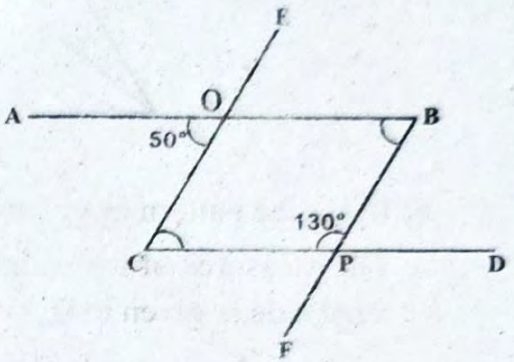
B. Parallel lines will be on the same tilt with another line.

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°. Angle AOC is 50°.



a. Find ∠BPD.

b. Find ∠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?

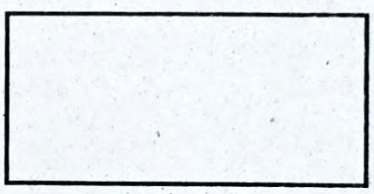
A. Opposite angles are equal.

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°.

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?

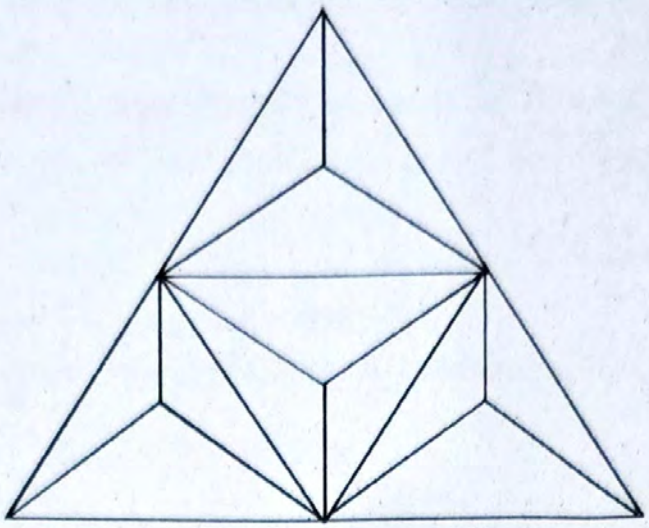
b. The width of the rectangle is half of its length. What is its width?

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?

	A		**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