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समग्र शिक्षा केरल Samagra Shiksha Kerala **SAMAGRA SHIKSHA KERALA**

E 703

SUMMATIVE ASSESSMENT I 2026-2027

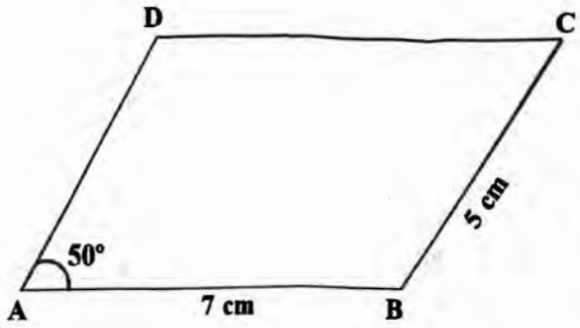
Mathematics

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 4 and 5. Attempt **any one**. (4A or 4B and 5A or 5B)

1. a.



Look at the statements about the given parallelogram. Which one is wrong?

A. AB and CD are parallel lines

B. Lines AD and BC do not have the same length

C. Angles A and C are equal.

D. Sum of angles B and C is 180°.

b. Draw the parallelogram with measures given in the figure.

2. In a class there are 45 students. $\frac{1}{3}$ of them are boys and remaining are girls.

a. What is the total number of girls in the class?

b. $\frac{1}{5}$ part of boys are the members of Maths Club. How many boys are members in Maths Club?

c. What times of $\frac{1}{4}$ is equal to 6 times of $\frac{1}{2}$?

d. Which of the following is not equal to 4 times of $1\frac{3}{4}$?

A. $(1 \times 4) + \left(\frac{3}{4} \times 4\right)$ B. $\frac{7}{4} \times 4$

C. $1\frac{3}{4} + 1\frac{3}{4} + 1\frac{3}{4} + 1\frac{3}{4}$ D. $4 \times \frac{3}{4}$

3. a. There are lengths of the two sides of a triangle in column A and the possible length of third side in column B.

A	B
a) 5 cm, 3 cm	1) 18 cm
b) 12 cm, 4 cm	2) 6 cm
c) 18 cm,7 cm	3) 10 cm

Which of the following is correctly matched?

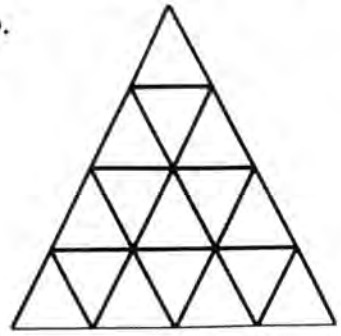
A. a - 3 b - 2 c - 1

B. a - 2 b - 3 c - 1

C. a - 3 b - 1 c - 2

D. a - 1 b - 3 c - 2

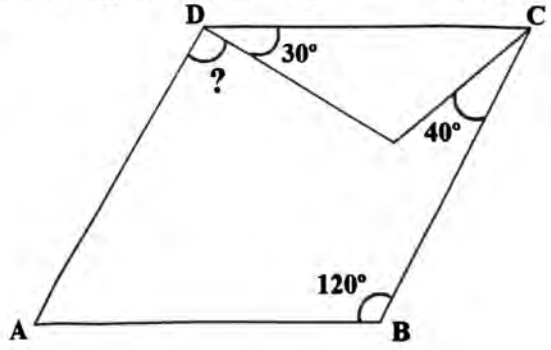
b.



Draw a triangle of sides 8 cm each. Divide it into small triangles as given in the figure and shade it beautifully.

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

4.A. In the figure, a triangle is drawn inside a parallelogram. Some angles are shown in figure.



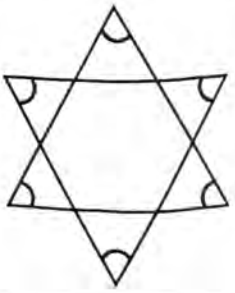
a. Which of the following is the measure of angle '?' marked?

A. $120° - 30°$ B. $90° + 30°$

C. $60° - 30°$ D. $120° + 30°$

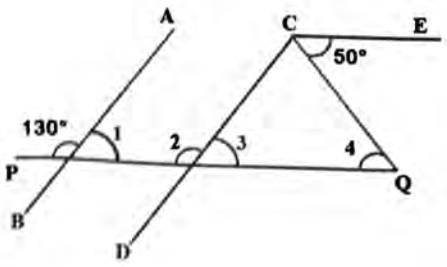
b. Write the measures of other two angles of the triangle.

c. What is the sum of all angles marked in the figure?



OR

4.B. a. AB and CD are parallel lines. PQ and CE are also parallel lines. Measures of two angles are given in the figure.



Two statements are given about the figure.

Statement 1 :

Measure of angle 2 is 130°.

Statement 2 :

Angle 1 and angle 2 have the same measures.

Which of the following is correct about the above statement?

A. Both statements are correct.

B. Both statements are incorrect.

C. Statement 1 is correct, statement 2 is incorrect.

D. Statement 1 is incorrect, statement 2 is correct.

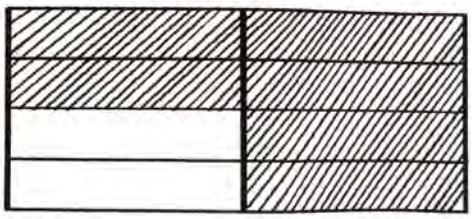
b. What is the measurement of angle 3?

c. What is the sum of angle 1 and angle 2?

d. What is the measure of angle 4?

Question 5 has two questions (5A and 5B). Answer any one.

5.A.



A rectangle is divided into 8 equal parts.

a. Write the fraction for the un-shaded part of the rectangle.

b. Draw a rectangle and shade $\frac{1}{2}$ of its $\frac{1}{4}$ part.

c. Which of the following is equal to $\frac{3}{4}$ of $\frac{2}{3}$?

A. $2 \times \frac{1}{3} \times \frac{3}{4}$

B. $\frac{2}{3} \times 4 \times \frac{1}{4}$

C. $2 \times 3 \times \frac{1}{4}$

D. $2 \times 3 \times \frac{1}{3}$

OR

5.B.a. What is the area of a square of side $\frac{1}{2}$ metre?

b. What is the area of a rectangle with $6\frac{1}{2}$ metres length and $3\frac{1}{2}$ metres width?

c. What is the increase in the area if the length of the above rectangle is increased by $\frac{1}{2}$ metre?

d. Which of following statements is not suitable for $\frac{2}{3} \times \frac{3}{4}$?

A. Less than $\frac{2}{3}$ B. More than $\frac{3}{4}$

C. Less than 1 D. Equal to $\frac{1}{2}$

6. a. Some statements related to the measures of a triangle are given.

i. A triangle can be drawn with two $90°$ angles.

ii. A triangle can be drawn with all the three angles less than $90°$.

iii. Triangles can be drawn with two angles greater than $90°$.

iv. A triangle cannot have more than one angle which are greater than $90°$.

Which of the above statements is correct?

A. Statements i and iii are correct. B. Statements ii and iv are correct.

C. Statements i and iv are correct. D. Statements ii and iii are correct.

b. Draw a triangle of one side 6 centimetres, one angle $50°$ and another angle $60°$.