



B.K. BIRLA CENTRE FOR EDUCATION



SARALA BIRLA GROUP OF SCHOOLS A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PERIODIC TEST-2 (2025-26) MATHEMATICS MARKING SCHEME

Class: VI	Time: 1 hr.
Date: 07.11.25	Max Marks: 25
Admission no:	Roll no:

A.	Choose the correct answer: Perimeter of an equilateral triangle =			$1 \times 5 = 5$	
			(c) 4 × Length	(d) 6 × Length	
		rectangle of length 2 cm (b) 1 cm ²		(d) 8 cm ²	
	_	boundary of a plane fig (b) perimeter		(d) breadth	
		with the same denomin (b) Unlike		fraction. (d) Improper	
	5. The simplest for (a) $\frac{2}{9}$	form of $\frac{16}{64}$ is	(c) $\frac{1}{2}$	$(d)\frac{1}{4}$	
В.	Do as directed			$2 \times 4 = 8$	
	6. Calculate the perimeter and area of a square with a side length of 5 units.				

Solution:

Perimeter = 20 units, Area = 25 square units

The perimeter is $4 \times \text{side length} = 4 \times 5 \text{ units} = 20 \text{ units}$.

The area is side length \times side length = 5 units \times 5 units = 25 square units.

7. Write the following mixed numbers as improper fractions: a. $3\frac{1}{4}$ b. $7\frac{2}{3}$ **Solution:**

a.
$$3\frac{1}{4} = \frac{(3 \times 4) + 1}{4}$$
$$= \frac{13}{4}$$

b.
$$7\frac{2}{3} = \frac{(7 \times 3) + 2}{3}$$

= $\frac{23}{3}$

8. What fraction of these circles has X's in them?



Solution:

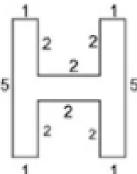
Total circles = 8

Circles with X's = 4

So, the fraction of circles with X's = $\frac{4}{8}$

$$=\frac{1}{2}$$

9. Find the perimeter of each of the following figure: (The measures are given in cm)



Solution:

Perimeter = sum of all sides

5+1+2+2+2+1+5+1+2+2+2+1=26 cm

C. Solve the following

 $3 \times 4 = 12$

10. A farmer has a rectangular field of length 230 m and breadth 160 m. He wants to fence it with rounds of rope as shown. What is the total length of rope needed?

Solution:

Perimeter of a rectangular field = 2 (length + breadth)

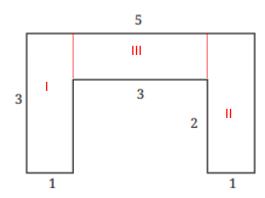
- = 2 (230 m + 160 m)
- =780 m

The farmer wants 3 rounds of rope to fence.

Total length of rope needed = $780 \text{ m} \times 3$

= 2340 m

11. By splitting the following figure into rectangles, find their areas (all measures are given in meters):



Solution:

Area of the rectangle $I = length \times breadth$

- $= 3 \text{ cm} \times 1 \text{ cm}$
- = 3 sq. cm

Area of rectangle $II = length \times breadth$

- $= 3 \text{ cm} \times 1 \text{ cm}$
- = 3 sq. cm

Area of rectangle III = length \times breadth

- $= 3 \text{ cm} \times 1 \text{ cm}$
- = 3 sq. cm

Total area of the figure = 3 sq. cm + 3 sq. cm + 3 sq. cm = 9 sq. cm.

Therefore, the total area of Figure (b) is 9 sq. cm.

12. Three rotis are shared equally by four children. Show the division in the picture and write a fraction for how much each child gets. Also, write the corresponding division facts, addition facts and multiplication facts.



Total pieces

Each roti is cut into 4 equal parts.

3 rotis \times 4 parts = 12 pieces in total.

12 pieces \div 4 children = 3 pieces each.

Each piece is $\frac{1}{4}$ of a roti.

So, each child gets $3 \times \frac{1}{4} = \frac{3}{4}$

Fraction each child gets = $\frac{3}{4}$

Division Fact:

$$3 \div 4 = \frac{3}{4}.$$

Addition Fact

$$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} = 3.$$

Multiplication Fact

$$4 \times \frac{3}{4} = 3.$$

13. Write the following fractions in ascending order: $\frac{7}{10}$, $\frac{1}{15}$, $\frac{2}{5}$, $\frac{3}{10}$, $\frac{4}{5}$

Solution:

The denominators are 10,15,5,10,5

The LCM of 10, 15, and 5 = 30.

$$\frac{7}{10} = \frac{21}{30}$$

$$\frac{1}{15} = \frac{2}{30}$$

$$\frac{2}{5} = \frac{12}{30}$$

$$\frac{3}{10} = \frac{9}{30}$$

$$\frac{4}{5} = \frac{24}{30}$$

$$\frac{2}{30} < \frac{9}{30} < \frac{12}{30} < \frac{21}{30} < \frac{24}{30}$$

$$\frac{1}{15} < \frac{3}{10} < \frac{2}{5} < \frac{7}{10} < \frac{4}{5}$$