INDIAN SCHOOL AL WADI AL KABIR

Post Mid-Term Examination (2025-26)

Class: VI | MATHEMATICS Marking scheme | Max Marks: 30

Date: 25/11/2025 | Set - 2 | Time: 1 hour

Instructions:

Section A: Multiple Choice Questions (Q.1 to Q.8)

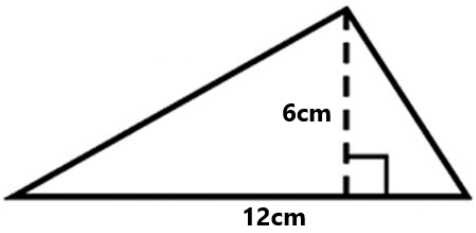
Section B: Source based questions (Q.9 to Q.12)

Section C: Long Answer Questions (Q.13 to Q.16)

Section D: 4 Marks Question & Case study Question (Q.17 to Q.18).

NOTE: This question paper consists of 4 printed pages.

Section A: Multiple Choice Question (Q.1 to Q.8) of **1** mark each								
1.	The triangular numbers from the following are:							
	A	1, 3, 6, 10……..	**B**		**C**		**D**	
2.	The number of whole units in the fraction $\frac{30}{13}$ is:							
	A		**B**		**C**	2	**D**	
3.	If the area of a rectangular garden of length 35m is 700 sq.m, then the width of the garden is:							
	A		**B**		**C**	20m	**D**	
4.	Maya had $\frac{4}{6}$ of a chocolate bar. She ate $\frac{1}{6}$ of it. How much of the chocolate bar is left?							
	A		**B**	$\frac{1}{2}$	**C**		**D**	

5.	The area of the give triangle is: 							
	A		**B**		**C**		**D**	36 sq.cm
6.	The fraction equivalent to $\frac{4}{5}$ is:							
	A		**B**		**C**		**D**	$\frac{8}{10}$
7.	The next number in the given sequence is: 4, 8, 16, 32, _____							
	A		**B**	64	**C**		**D**	
8.	The improper fraction for the mixed number $7\frac{5}{7}$ is:							
	A		**B**	$\frac{54}{7}$	**C**		**D**	
	Section B: Source based questions (Q.9 to Q.12) of 1 mark each A school craft group is preparing decorations for an upcoming exhibition. One of the activities involves creating different geometric shapes using pieces of string. Sara receives a 48 cm long piece of string and is asked to form different shapes with it. Using the same 48 cm string each time, answer the following:							
9.	If she forms a triangle with all sides equal, what will be the length of each side?							
	A		**B**	16cm	**C**		**D**	
10.	If she forms a square, what will be the length of each side?							
	A	12cm	**B**		**C**		**D**	

11.	If Sara forms a rectangle with a length of 14 cm, what is the width of the rectangle?							
	A		**B**		**C**		**D**	10cm
12.	What is the side length of a regular octagon made with it?							
	A		**B**		**C**		**D**	6cm
	Section C: Long Answer Questions (Q13 to Q.16)							
13.	Complete the lines E and F in the number pattern given below: Line A: 0 × 9 + 1 = 1 Line B: 1 × 9 + 2 = 11 Line C: 12 × 9 + 3 = 111 Line D: 123 × 9 + 4 = 1111 **Line E:** 1234 x 9 + 5 = 11111 .....(1m) **Line F:** 12345 x 9 + 6 = 111111 .....(1m)							
14.	Represent the given fractions on a number line. $\frac{3}{8}, \frac{1}{8}, \frac{5}{8}, \frac{7}{8}$ Ans: ½ mark each for each fractions (½+½+½+½)							
15.	A rectangular playground is 90m long and 45m wide. A square stage of side 15m is built in the center of the playground. Find the remaining area of the playground that is not occupied by the stage. (3m) **Ans:** 1. Area of the rectangular playground Area = length × breadth = 90 × 45 = 4050 sq.m (½+½m) 2. Area of the square stage Area=side x side = 15 ×15=225 sq.m (½+½m) 3. Remaining area = 4050 − 225 = 3825 sq.m .....(½+½m)							

16. Express the following fractions in lowest terms: (3m)

a) $\frac{45}{75}$ b) $\frac{96}{28}$

Ans: a) $\frac{45\div5}{75\div5} = \frac{9\div3}{15\div3}$ .....(½+½m)

$= \frac{3}{5}$ .....(½m)

b) $\frac{96\div2}{28\div2} = \frac{48\div2}{14\div2}$ .....(½+½m)

$= \frac{24}{7}$ .....(½m)

Section D: Long Answer Question of 4 marks &Case study (Q.17 & Q.18)

17. Sam runs around a rectangular park of length 80m and breadth 50m for 3 rounds. Rohan runs around a square park of side 60m for 2 rounds.

a) Find the total distance covered by Sam in 3 rounds.

b) Find the total distance covered by Rohan in 2 rounds.

c) Who ran a greater distance and by how much? (4m)

Ans: a) Sam's park: Rectangle

Length = 80 m

Breadth =50 m

Perimeter= 2 × (l + b) = 2 × (80+50)

= 2×130 = 260 m.....(½+½m)

Distance for 3 rounds = 260 × 3=780 m.....(½m)

Rohan's park: Square

Side = 60 m

Perimeter = 4 × side = 4 x 60 .....(½m)

=240 m .....(½m)

Distance for 2 rounds =240 × 2 = 480 m.....(½m)

780m > 480m

Sam ran more by 780 – 480 = 300 m.....(½+½m)

18. **Case Study:**

Two students, Aditi and Ryan, are participating in their school's annual Healthy Snack Innovation Challenge. Each participant must prepare Granola bars using oats and honey as their main ingredients. Both students decide to create simple no-bake bars, but each uses a slightly different recipe.

Aditi uses: $\frac{2}{3}$ cup of oats, $\frac{1}{2}$ cup of honey and $\frac{3}{4}$ cup of peanut butter.

Ryan uses: $\frac{3}{4}$ cup of oats and $\frac{1}{3}$ cup of honey and $\frac{4}{5}$ cup of peanut butter.

Based on the information answer the following questions:

a) What is the total quantity of ingredients used by Aditi? (2m)

b) How much more honey did Aditi use than Ryan? (1m)

c) Who used less amount of peanut butter? (1m)

Ans:

a) Total quantity of ingredients used by Aditi = $\frac{2}{3} + \frac{1}{2} + \frac{3}{4}$

LCM (3, 2, 4) = 12.....(½m)

$\frac{2\times4}{3\times4} = \frac{8}{12}$, $\frac{1\times6}{2\times6} = \frac{6}{12}$, $\frac{3\times3}{4\times3} = \frac{9}{12}$.....(½m)

Total = $\frac{8}{12} + \frac{6}{12} + \frac{9}{12} = \frac{8+6+9}{12} = \frac{23}{12} = 1\frac{11}{12}$ .....(½+½m)

b) Quantity of more honey used by Aditi = $\frac{1}{2} - \frac{1}{3} = \frac{1}{6}$.....(½+½m)

c) Comparing $\frac{3}{4}$ and $\frac{4}{5}$

3 x 5 = 15

4 x 4 = 16

$15 < 16$

Aditi used less amount of peanut butter.....(1m)

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