INDIAN SCHOOL AL WADI AL KABIR

Post Mid-Term Revision Worksheet (2025-26)

Class: VII | Sub: MATHEMATICS | Max Marks: 30

Instructions:

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

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

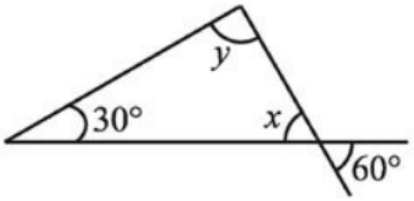
Section C: Long Answer Questions (Q.13 to Q.16)

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

NOTE: This revision paper consists of 4 printed pages.

Section A: Multiple Choice Question (Q.1 to Q.8) of **1** mark each

1. Find the value of x and y in the adjoining figure:



	A	$x = 90°, y = 60°$	**B**	$x = 60°, y = 90°$	**C**	$x = y = 60°$	**D**	$x = 30°, y = 90°$

2. The reciprocal of $\left(-3 \times \frac{8}{12}\right) + \left(-5 \times \frac{9}{15}\right)$ is:

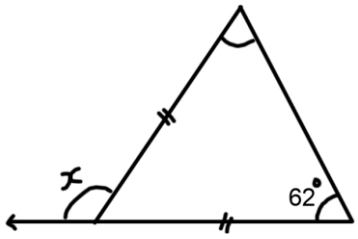
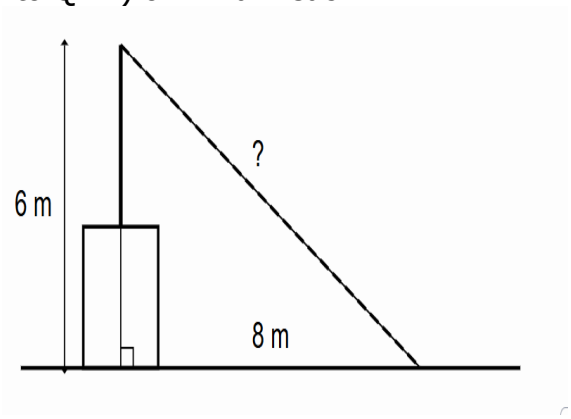
	A	$\frac{1}{5}$	**B**	-5	**C**	$\frac{-1}{5}$	**D**	1

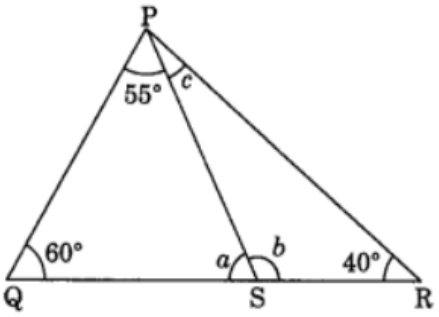
3. Which of the following can be the measures of the sides of a triangle?

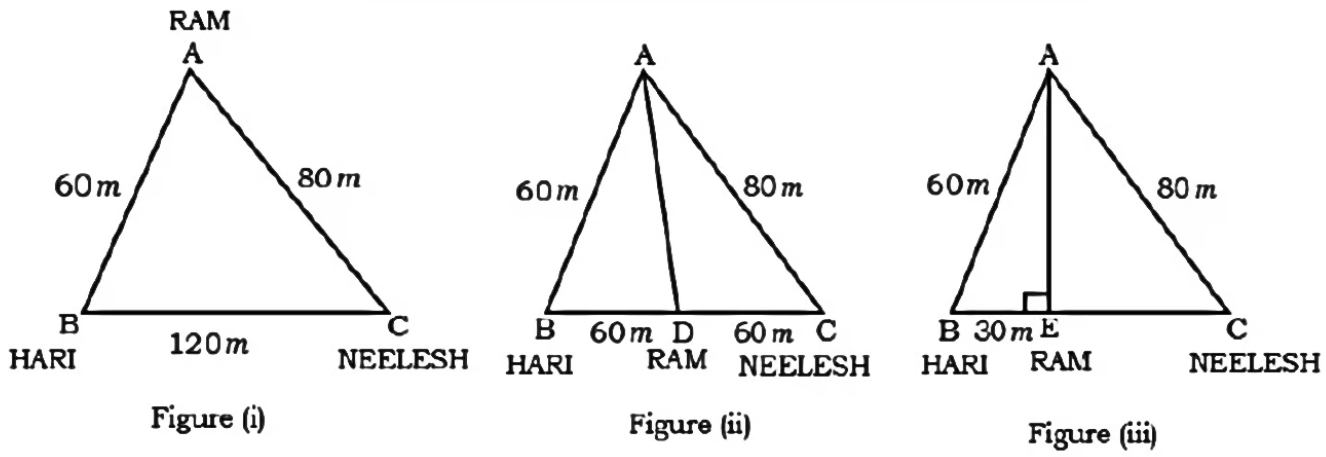
	A	6cm, 9cm, 14cm	**B**	8cm, 10cm, 19cm	**C**	7cm, 12cm, 20cm	**D**	5cm, 8cm, 14cm

4. Asha bought $\frac{18}{3}$ kg of sponge to make cushions. If each cushion requires $\frac{3}{2}$ kg of sponge, how many cushions can she make?

	A	3	**B**	4	**C**	6	**D**	8

5.	The value of x in the below figure is:  							
	A	62°	**B**	142°	**C**	124°	**D**	56°
6.	The standard form of rational number $\frac{36}{-81}$ is_____.							
	A	$\frac{12}{-27}$	**B**	$\frac{-27}{12}$	**C**	$\frac{4}{-9}$	**D**	$\frac{-4}{9}$
7.	The angles of a triangle are in the ratio 3 : 4 : 5. The measure of the largest angle is:							
	A	50°	**B**	75°	**C**	45°	**D**	60°
8.	Which among the following rational numbers is equivalent to $-3\frac{1}{2}$?							
	A	$\frac{-21}{6}$	**B**	$\frac{-12}{2}$	**C**	$\frac{-14}{6}$	**D**	$\frac{-7}{3}$
	Section B: Source based questions (Q.9 to Q.12) of 1 mark each A flagpole on top of a fort wall breaks during a storm. The broken top part of the pole falls and touches the ground 8 m away from the base of the wall. The remaining upright part of the pole still attached to the wall is 6 m high from the ground. Based on this information, answer the following:  							
9.	What is the height of broken part?							
	A	100 m	**B**	10 m	**C**	28 m	**D**	64 m

10.	If the fort wall is 3 m high, what is the height of the remaining pole part?							
	A	7m	**B**	5 m	**C**	3 m	**D**	6 m
11.	What was the original height of the pole?							
	A	15 m	**B**	16 m	**C**	17 m	**D**	13 m
12.	If the legs of a right-angled triangle are represented by **a** and **b**, and the hypotenuse is represented by **c,** then the equation which represents the Pythagoras Theorem is:							
	A	$a^2 + b^2 = c^2$	**B**	$b^2 + c^2 = a^2$	**C**	$a^2 + c^2 = b^2$	**D**	$a^2 + b^2 > c^2$
	Section C: Long Answer Questions (Q13 to Q.16)							
13.	Do as directed: $(\frac{-9}{4} + \frac{2}{3}) \div (\frac{7}{3} - \frac{5}{3})$ (2m)							
14.	One of the angles of a triangle has measure 70°and other two angles are equal. Find the two equal angles. (2m)							
15.	Insert four rational numbers between $\frac{-2}{5}$ and $\frac{-4}{3}$. (3m)							
16.	Find the unknown angles a, b, c in the adjoining figure. (3m) 							
	Section D: Long Answer Question of 4 marks &Case study (Q.17 & Q.18)							
17.	Represent the following rational numbers on the same number line: $\frac{-3}{7}, \frac{1}{7}, \frac{-9}{7}$, 0, 1, -1.							

18.	**Case Study:** Three friends Ram, Hari & Neelesh are standing at position A, B & C respectively as shown in figure (i). Ram wants to join the line through Hari & Neelesh. Hari suggest Ram to move along AD & take the position at D as in figure (ii). Neelesh suggest Ram to move along AE & take the position at E as in figure (iii).  Based on the above information, answer the following questions: I) In the figure (ii), what does AD represents? II) In the figure (iii), what does AE represents? III) Check whether the lengths 7 cm, 24 cm, 25 cm can be the sides of a right-angled triangle.

ANSWERS							
Q1.	B	**Q2.**	C	**Q3.**	A	**Q4.**	B
Q5.	C	**Q6.**	D	**Q7.**	B	**Q8.**	A
Q9.	B	**Q10.**	C	**Q11.**	D	**Q12.**	A
Q13.	$\frac{-19}{8}$	**Q14.**	55°	**Q15.**	$\frac{-61}{150}, \frac{-62}{150}, \frac{-63}{150}, \frac{-64}{150}$	**Q16.**	a=65°, b=115°, c=25°
Q18.	I) Median, II) Altitude III) Yes.						