

WORK SHEET-3/4

QUESTIONS

- 1) Construct a triangle with $AB=4.5\text{cm}$, $BC=5\text{cm}$ and $AC=6\text{cm}$
- 2) Construct ΔPQR with $QR = 7.5 \text{ cm}$, $PQ = 5 \text{ cm}$ and $\angle Q = 60^\circ$.

MCQ-3

Choose the Correct Answer:				(10x1 = 10 Marks)	Answer
1.	In which of the following cases can a triangle be constructed?				
	(a) Measures of three sides are given.	(b) Measures of two sides and an included angle are given.	(c) Measures of two angles and the side between them are given.	(d) All the above	()
2	Study the steps of construction given. Step 1: Draw a ray OA and any convenient radius draw an arc MN to cut OA at M. Step 3: With M as centre and the same radius draw an arc to cut MN at P. Step 4: With P as centre and the same radius, draw an arc to cut MN at Q. Step 5: Draw OQ and produce it to D. An angle AOD is constructed. What is the measure of $\angle AOD$?				
	(a) 60°	(b) 30°	(c) 120°	(d) 45°	()
3	Identify the criterion of construction of the equilateral triangle LMN given $LM = 6 \text{ cm}$.				
	(a) S.A.S. criterion	(b) R.H.S. criterion	(c) A.S.A. criterion	(d) S.S.S. criterion	()
4	ΔPQR is constructed such that $PQ = 5 \text{ cm}$, $PR = 5 \text{ cm}$ and $\angle RPQ = 50^\circ$ Identify the type of triangle constructed.				
	(a) An isosceles triangle	(b) An acute angled triangle	(c) An obtuse angled triangle	(d) Both [a] and [b]	()
5	In ΔXYZ , x, y and z denote the three sides. Which of the following is incorrect'?				
	(a) $x - y > z$	(b) $x + z > y$	(c) $x - y < z$	(d) $x + y > z$	()
6	Which among the following is used to construct a triangle				
	(a) The lengths of the three sides	(b) The perimeter of the triangle	(c) The measures of three angles	(d) The names of three vertices	()
7	In the given figure, find the measure of $\angle ROT$, if $PQ = QR$ and $\angle QPR = 50^\circ$.				
	(a) 60°	(b) 140°	(c) 120°	(d) 100°	()
8	The property of a triangle is required to construct a triangle, if one side and any two angles are given				
	(a) Inequality property	(b) Exterior angle property	(c) Angle sum property	(d) None of the above	()
9	When the measures of three angles of a triangle are given, then this statement is				

	TRUE.				
	(a) The orientation may be different	(B) the shape may be different	(c) The size may be different	(d) None of the above	()
10	If the TWO triangles are congruent, then this statement is TRUE.				
	(a) The corresponding sides are equal	(b) the corresponding angles are equal	(c) the corresponding parts are equal	(d) None of the above	()

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