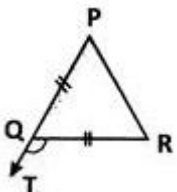


WORKSHEET-2/4

Questions

- 1) Construct an equilateral triangle of side each of length 4.5cm
- 2) Construct an isosceles triangle with base 5cm and each of the equal sides is of length 6cm
- 3) Construct a right angled triangle with hypotenuse 10cm and one of its length of length 8cm
- 4) Construct a triangle with measures 60° , 40° and 80°
- 5) Examine whether ΔABC such that $BC=7.2\text{cm}$, $m\angle B=110^\circ$ and $m\angle C=80^\circ$.
Justify your answer.
- 6) Examine whether ΔDEF such that $EF=5\text{cm}$ $DE=7\text{cm}$ and $DF=12\text{cm}$. Justify your answer.

MCQ-2

Choose the Correct Answer:				(10x1 = 10 Marks)	Answer
1.	A Given $AB = 3\text{ cm}$, $AC = 5\text{ cm}$, and $\angle B = 30^\circ$, ΔABC cannot be uniquely constructed, with AC as base, why?				
	(a) Two sides and included angle are given.	(b) The other two angles are not given.	(c) The vertex B cannot be uniquely located	(d) The vertex A coincides with the vertex C.	()
2	ΔPQR is such that $\angle P = \angle Q = \angle R = 60^\circ$ which of the following is true?				
	(a) ΔPQR is equilateral.	(b) ΔPQR is acute angled.	(c) Both [a] and [b]	(d) Neither [a] nor [b]	()
3	ΔPQR is constructed with all its angles measuring 60° each. Which of the following is correct?				
	(a) ΔPQR is an equilateral triangle.	(b) ΔPQR is isosceles triangle.	(c) ΔPQR is a scalene triangle.	(d) ΔPQR is a right angled triangle.	()
4	Identify the false statement.				
	(a) A triangle with three equal sides is called an equilateral triangle	(b) A triangle with a right angle is called a right angled triangle.	(c) A triangle with two equal sides is called a scalene triangle.	(d) A right angled triangle has two acute angles and a right angle.	()
5	In the given figure, find the measure of $\angle ROT$, if $PQ = QR$ and $\angle QPR = 60^\circ$.				
					

	(a) 60°	(b) 140°	(c) 120°	(d) 100°	()
6	A triangular sign board is isosceles. If the unequal side is 7 cm and one of the equal sides is 6 cm, what is the measure of the third side?				
	(a) 5 cm	(b) 6 cm	(c) 7 cm	(d) Either [a] or [c]	()
7	Which of the following statements is incorrect?				
	(a) The sum of angles in a triangle is 2 right angles	(b) The exterior angle of a triangle is equal to the interior angle of the triangle.	(c) The hypotenuse is the longest side of a right angled triangle	(d) All the above	()
8	Identify the true statement.				
	(a) A triangle with 3 equal sides is isosceles.	(b) A triangle with a 110° angle is right angled.	(c) A triangle with 3 acute angles is acute angled	(d) A triangle with 2 equal sides is equilateral.	()
9	Choose the correct option in which a triangle CANNOT be constructed with the given lengths of sides(in cm) .				
	(a) 3, 4,5	(b) 7,6,5	(c) 10,7, 2	(d) 12, 8, 6	()
10	Based on the sides of a triangle, which of the following is a classification of triangles?				
	(a) A right angled triangle	(b) An acute angled triangle	(c) An obtuse angled triangle	(d) An isosceles triangle	()

BY G.L. KUMAR, TGT(SS), AECS-MNGR