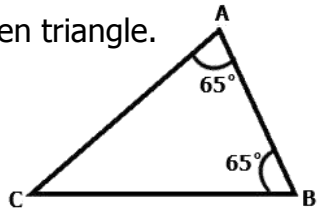
INDIAN SCHOOL AL WADI AL KABIR

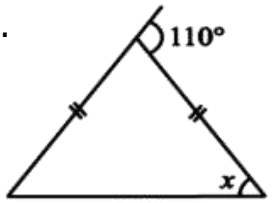
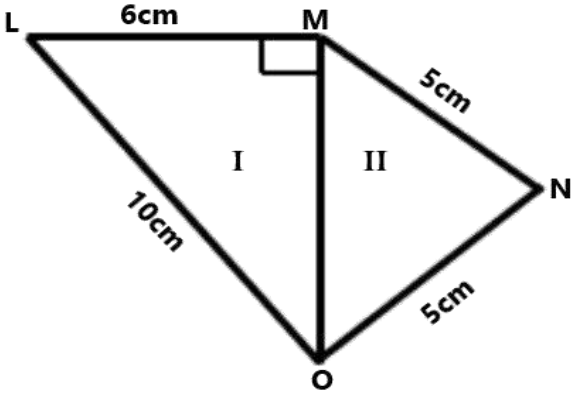
Class VII, Mathematics

TRIANGLES & ITS PROPERTIES

WORKSHEET- (MCQ)

Multiple Choice Questions

Q1.	The sum of any two sides of a possible triangle is:							
	A	Less than the third side	**B**	Equal to third side	**C**	Greater than the third side	**D**	Half of the third side
Q2.	The sum of an exterior angle of a triangle and its adjacent angle is always equal to:							
	A	90°	**B**	180°	**C**	360°	**D**	270°
Q3.	In a right- angled triangle, the angles other than the right angle are:							
	A	Obtuse	**B**	Right	**C**	Acute	**D**	Straight
Q4.	One of the acute angles of a right-angled triangle is 22.5°. Which is the other angle?							
	A	65.7°	**B**	62.5°	**C**	72.5°	**D**	67.5°
Q5.	Which two sides are equal in the given triangle. 							
	A	AB, BC	**B**	BC, CA	**C**	CA, AB	**D**	No sides are equal
Q6.	The hypotenuse of a right triangle is 17 cm long. If one of the remaining two sides is 8 cm in length, then the length of the other side is:							
	A	15cm	**B**	13cm	**C**	12cm	**D**	9cm
Q7.	Which of the following can be the lengths of sides of a triangle?							
	A	3cm, 4cm, 7cm	**B**	2cm, 3cm, 7cm	**C**	3cm, 4cm,5cm	**D**	3cm, 3cm, 7cm
Q8.	The exterior angle of a triangle is of measure 150° and one of its interior opposite angles is of measure 85°. Find the measure of another interior opposite angle.							
	A	55°	**B**	45°	**C**	35°	**D**	65°
Q9.	Which of the following cannot be the angles of a triangle?							
	A	53°,57°, 70°	**B**	65°,45°, 70°	**C**	75°, 20°, 75°	**D**	60°,40°,80°

Q10.	Find the angle x in the given figure. 							
	A	70°	**B**	55°	**C**	20°	**D**	35°
FILL IN THE BLANKS								
Q11.	In a triangle, if two interior angles are 65° and 70°, then the measure of exterior angle opposite to it is _____.							
Q12.	The base angle of an isosceles triangle is 65°, the measure of the vertical angle is _____.							
Q13.	The triangle in which two altitudes of a triangle are two of its sides is _____.							
Q14.	_____ connects a vertex of a triangle to the midpoint of its opposite side.							
Q15.	In a right-angled triangle-shaped park, an angle measure 35°. What will be the measure of the third angle?							
	CASE STUDY: A chocolate in the form of a quadrilateral with sides 6cm and 10cm, 5cm and 5cm (as shown in figure) is cut into two parts on one of its diagonals by Ritu. Part I is given to Nila, and part II is equally divided among Nikhil and Nakul. Based on the given information answer the following questions:  							
Q16.	Find the length of the diagonal OM.							
	A	4cm	**B**	5cm	**C**	8cm	**D**	16cm
Q17.	What is the perimeter of ΔLMO.							
	A	21cm	**B**	32cm	**C**	20cm	**D**	24cm
Q18.	If ∠MNO = 70°, find the measure of ∠MON.							
	A	30°	**B**	55°	**C**	60°	**D**	90°

Q19.	Which of the following is **NOT** true from the figure?							
	A	$LO^2 - LM^2 = MO^2$	**B**	$LO^2 = LM^2 - MO^2$	**C**	$LO^2=LM^2+MO^2$	**D**	$LO^2 -OM^2 = LM^2$
Q20.	If $\angle L = 50^\circ$, find $\angle MOL$.							
	A	45°	**B**	70°	**C**	40°	**D**	30°

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ANSWERS

1.	Greater than the third side	**2.**	B)180°	**3.**	C)Acute	**4.**	D) 67.5°
5.	B) BC, CA	**6.**	A) 15cm	**7.**	C) 3cm, 4cm,5cm	**8.**	D)65°
9.	C) 75°, 20°, 75°	**10.**	B) 55°	**11.**	135°	**12.**	50°
13.	Right angled triangle	**14.**	Median	**15.**	55°	**16.**	C)8cm
17.	D)24cm	**18.**	B) 55°	**19.**	B) $LO^2 = LM^2 - MO^2$	**20.**	C) 40°