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WORK SHEET SUBJECT- MATHS

Chapter-6: The triangle and its properties

CLASS-VII

Q1.Fill in the blanks:

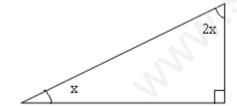
a)	Α	of a triangle connects one of its vertex to the midpoint of the
	opposite side.	
b)	A triangle can have	altitudes.
c)	A triangle can have	medians.
d)	In a	triangle two of its sides are its altitudes.
e)	In an	triangle, the median and altitude are given by the same line segment.
f)		is the longest side in a right triangle.
g)	By Pythagoras theor	rem $(_{)}^{2} = (_{)}^{2} + (_{)}^{2}$

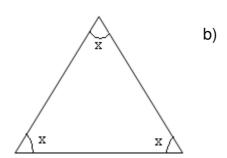
Q2. State:

- a) Angle sum property of a triangle.
- b) Pythagoras property
- c) Property of the lengths of sides of a triangle.

Q3. Find the unknown angles of the following:

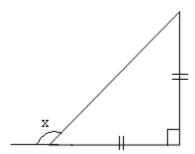
a)





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Q4. Find the value of x:



Q5. The lengths of two sides of a triangle are 12cm and 15cm. Between what two measures should the length of the third side fall?

Q6. ABCD is a quadrilateral. Is AB + BC + CD + DA < 2(AC + BD) ?

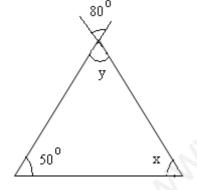
Q7. Determine whether the triangle whose lengths of sides are 4, 5, 6 is a right angled triangle.

Q8. ABC is right angled at C. If AC=5cm and BC=12cm, find the length of AB.

Q9. Is there a triangle whose sides have length 10.2cm, 5.8cm and 4.5cm?

Q10 Find the values of the unknowns x and y in the following figures

a)



b)

