THE TRIANGLE AND ITS PROPERTIES
Subtopic: INTRODUCTION, MEDIANS OF A TRIANGLE, ALTITUDES OF A TRIANGLE

Section 1

1. Mark T for True and F for False

   1a. A triangle is a simple closed curve made of 3 line segments.

   1b. Altitude connects vertex of a triangle to the mid point of the opposite side.

2. Choose the correct answer.

   2a. The parts or elements of a triangle are how many in number ?

       a) 3

       b) 6

       c) 8

       d) 9

   2b. A Scalene triangle is one in which,

       a) All sides are equal

       b) No sides are equal

       c) Two sides are equal
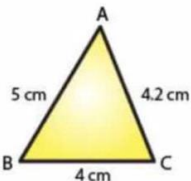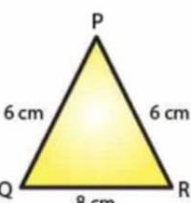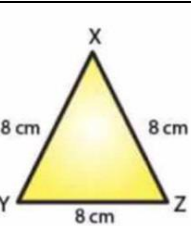
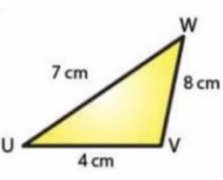   d) None of the above

3. Fill in the blanks
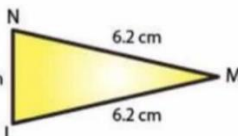
   3a. Every triangle has at least _____ acute angle (s).

   3b. A triangle with all the sides equal is called _____.

4. Match the following.

Figure	Name	Answer here	
a)	1)Isosceles	a)	
b)	2)Scalene	b)	
c)	3) Isosceles	c)	
d)	4)Equilateral	d)	
e)	5) Scalene	e)	

Section 2

5. How many altitudes can a triangle have?

6. How many medians can a triangle have?

7. Draw rough sketch of altitude from A to BC for the given triangle.

Acute-angled
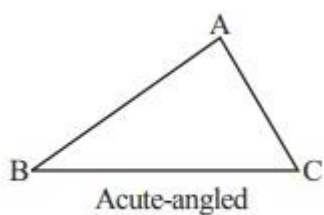
8. Draw rough sketches for the following a) In triangle ABC, BE is a median. B) In triangle PQR, PQ and PR are altitudes of the triangle.

Section 3

9. Verify by drawing a diagram of the median and altitude of an isosceles triangle if they can be same.

10. Draw rough sketch of altitude from A to BC for the given triangle. What is special about this altitude?

Obtuse-angled