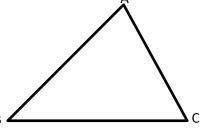
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Unit 14 – Rectilinear Plane figures(2)

• Triangles

a polygon consisting of three straight line segments is a triangle. There are three angles and three sides in a triangle. These are called the elements of the triangle.



• *AB*, *BC* and *CA* are the three sides of the triangle *ABC*. Furthermore, $A\hat{B}C$, $B\hat{A}C$ and $A\hat{C}B$ are the three angles of the triangle *ABC*.

and <i>Hob</i> are the unce angles of the thangle Hbe.						
	Activity	1				
Step 1 - Complete the table given below by naming the sides and						
	the angles of each of the given triangles.					
B = C Q = R M						
	Triangle	Sides	Angles			
[ABC	AB, AC, BC,	ABC, BÂC, BĈA,			
[PQR					
	LMN					

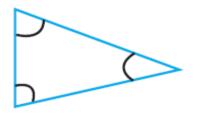
Classification of triangles according to the length of the sides

A triangle of which all three sides are equal in length is known as an **equilateral triangle**.

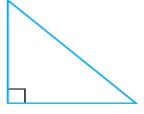
A triangle of which two sides are equal in length is known as an **isosceles triangle.**

A triangle of which all three sides are unequal in length is known as a scalene triangle.

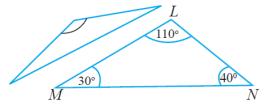
- Classification of triangles according to the angles
 - Acute angled triangle If all three angles of a triangle are acute angles, then the triangle is called an **acute angled triangle**.

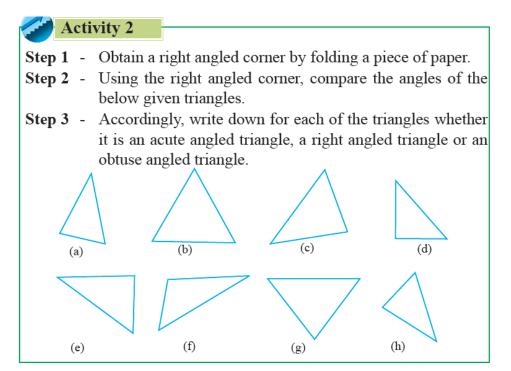


Right angled triangle - If one angle of a triangle is a right angle, then the triangle is called a **right angled triangle**. The other two angles of a right angled triangle are acute angles.



Obtuse angled triangle - If one angle of a triangle is an obtuse angle, then the triangle is called an **obtuse angled triangle**. The other two angles of an obtuse angled triangle are acute angles.





> Do all the exercises in your text book 14.4 and 14.5