## **Classification of Triangles**

## 1. Choose the correct option.

**a.** A closed figure formed by three non-parallel line segments is called:

	i) A triangle		ii) A rectangle	
	iii) Sides of a triangle			
b.	A triangle in which no ty	wo sides are equa	l is known as:	
	i) Iscoceles triangle		ii) Scalene triangle	
	iii) Equilateral triangle			
c.	A triangle has	sides ve	tices angles.	
	i) 3, 3, 3	ii) 3, 3, 2	iii) 4, 3, 3	
d.	A triangle having all ang	gles equal is know	n as:	
	i) Equilateral triangle		ii) Scalene triangle	
	iii) Right angle triangle			

## 2. Fill in the blanks.

- a. A triangle whose all the angles are of measure less than 90° is called \_\_\_\_\_\_.
- **b.** A triangle one of whose angles is more than 90° is called \_\_\_\_\_\_.
- c. A triangle one of whose angles is 90° is called \_\_\_\_\_\_.
- **d.** An obtuse-angled triangle has one of its angles \_\_\_\_\_\_than 90°.
- e. An acute-angled triangle has all the angles \_\_\_\_\_90°.

3. Classify the following triangles according to their angles.



- **d.** 150°, 10°, 20°

6. Take three non-collinear points, L, M and N. Join LM, MN and NL, what figure do you get?



- 7. One of the equal angles of an equilateral triangle is 60°. Find its other angles.
- 8. The angles of a triangle are in the ratio 2:6:4. Find the largest angle of a triangle.