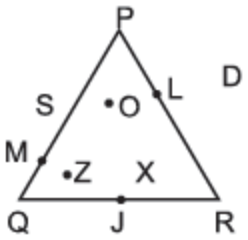
# Triangles

**1. State whether the following statements are true or false.**

**a.** The three sides closed figure obtained by joining three non-collinear points is called a triangle. ☐

**b.** The three line segments forming a triangle are called the vertex of the triangle. ☐

**2. In figure, name the points:**

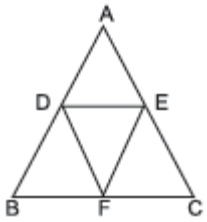



**a.** in the interior of ΔPQR _____

**b.** in the exterior of ΔPQR _____

**c.** that lie on the ΔPQR _____

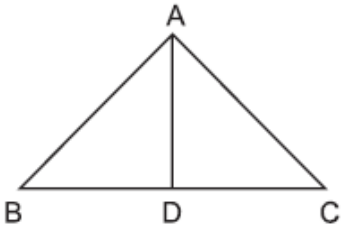
**3. In figure, write the names of**




**a.** all the triangles _____

**b.** all the quadrilateral _____

**4. Consider the given figure and answer the following questions.**



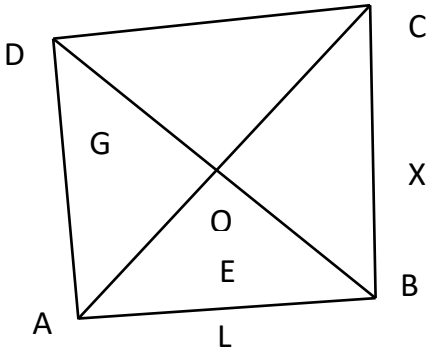

**a.** Identify three triangles in the figure. _____

**b.** Write the names of seven angles. _____

**c.** Write the names of six line segments. _____

**d.** Write two triangles that have ∠C as common. _____

**5. Look at the given figure and answer the following.**




**a.** Identify the figure ABCD and name its diagonals.

**b.** How many triangles are there in figure? Name all of them.

**c.** Is point G in the interior of ABCD?

**d.** Name the points lying on the ABCD.

**e.** Name the points in the interior of ΔAOB

**6. Look at the given figure. How many triangles are there. Name each of them Also, which triangles have:**

**a.** A as a vertex. _____

**b.** B as a vertex. _____

**c.** C as a vertex. _____

**d.** D as a vertex. _____

**e.** E as a vertex. _____

**f.** F as a vertex. _____