Name _____   Date _____

1. Draw triangles that fit the following classifications. Use a ruler and protractor. Label the side lengths and angles.

   a. Right and isosceles

   b. Right and scalene

   c. Obtuse and isosceles

   d. Acute and scalene

2. Draw all possible lines of symmetry in the triangles above. Explain why some of the triangles do not have lines of symmetry.
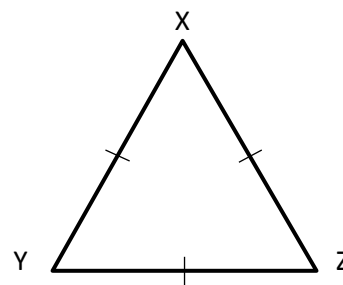
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Lesson 14: Define and construct triangles from given criteria. Explore symmetry in triangles.

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Are the following statements true or false? Explain.

3.   △ ABC is an isosceles triangle. $\overline{AB}$ must be 2 cm. True or False?
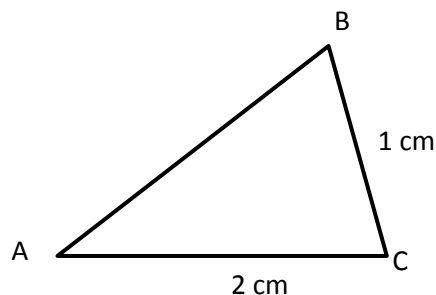
4.   A triangle cannot have both an acute angle and a right angle. True or False?

5.   △ XYZ can be described as both equilateral and acute. True or False?

6.   A right triangle is always scalene. True or False?

Extension: In △ ABC, x = y. True or False?

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