

Name _____

Date _____

1. Draw triangles that fit the following classifications. Use a ruler and protractor. Label the side lengths and angles. You may do the drawings on a piece of scratch paper.

a. Right and isosceles

b. Obtuse and scalene

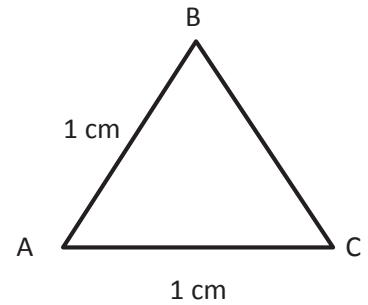
c. Acute and scalene

d. Acute and isosceles

2. Draw all possible lines of symmetry in the triangles above. Explain why some of the triangles do not have lines of symmetry.

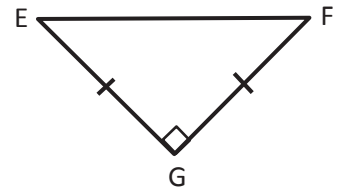
Are the following statements true or false? Explain using pictures or words.

3. If $\triangle ABC$ is an equilateral triangle, \overline{BC} must be 2 cm. True or False?



4. A triangle cannot have one obtuse angle and one right angle. True or False?

5. $\triangle EFG$ can be described as a right triangle and an isosceles triangle. True or False?



6. An equilateral triangle is isosceles. True or False?

Extension: In $\triangle HIJ$, $a = b$. True or False?

