



Name: _____

Naming Triangles by Sides: A Review

1. Match the definition in the first column to the term in the second.

a. A triangle with three sides of equal length

scalene

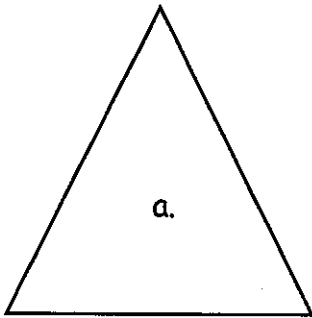
b. A triangle with two sides of equal length

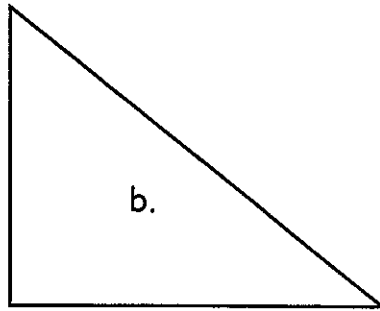
equilateral

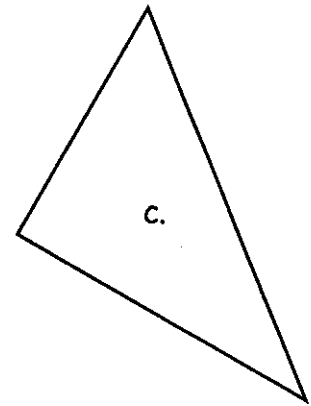
c. A triangle with no sides of equal length

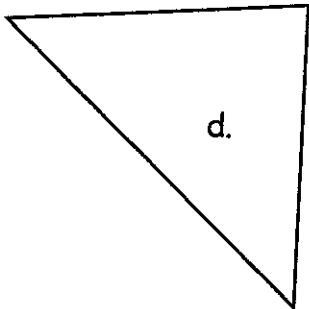
isosceles

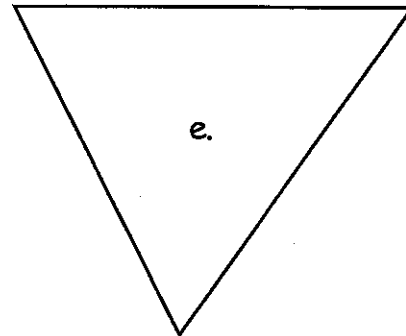
2. Measure and record the side lengths of each triangle. Name the triangles according to the number of equal side lengths.

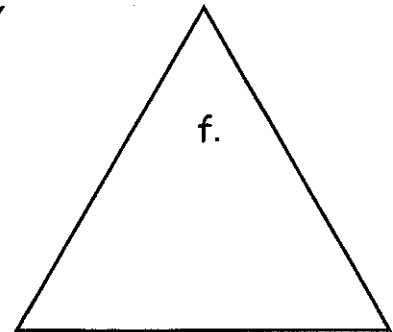


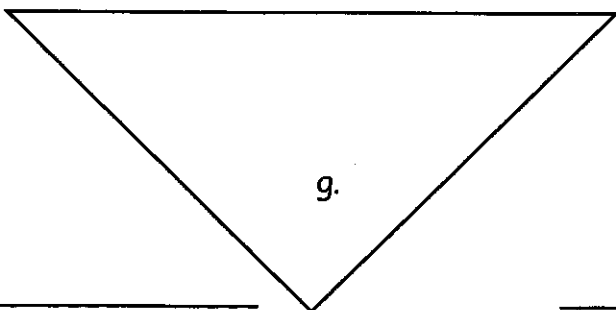


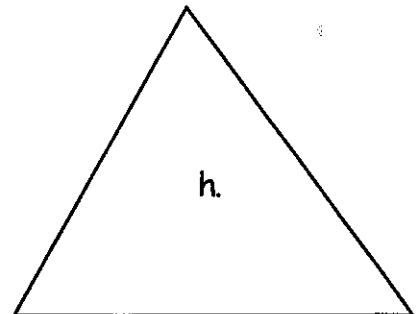














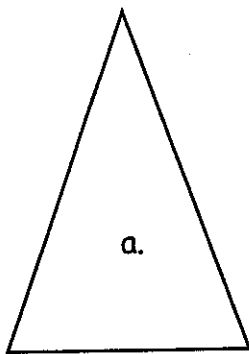
Symmetry in Triangles

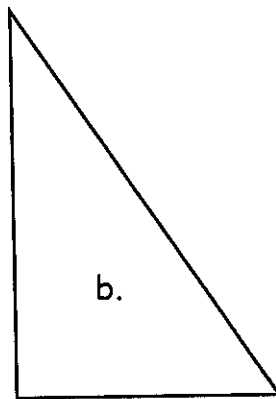
Recall that triangles can also be classified by the number of lines of symmetry:

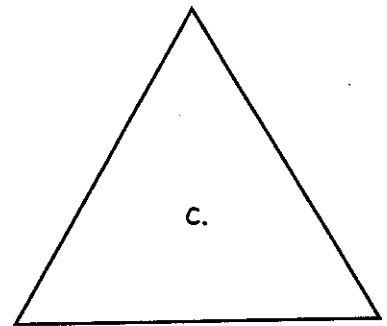
- a. Equilateral 3 lines of symmetry
- b. Isosceles 1 line of symmetry
- c. Scalene 0 lines of symmetry

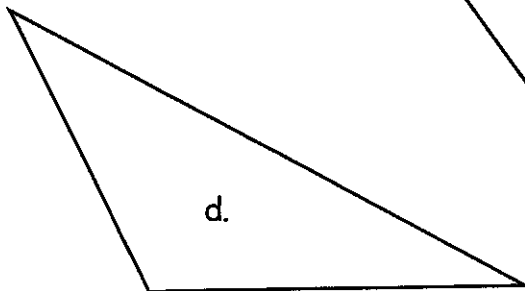
Find all the lines of symmetry for each of the following triangles, draw the lines of symmetry on the triangles, and classify each triangle.

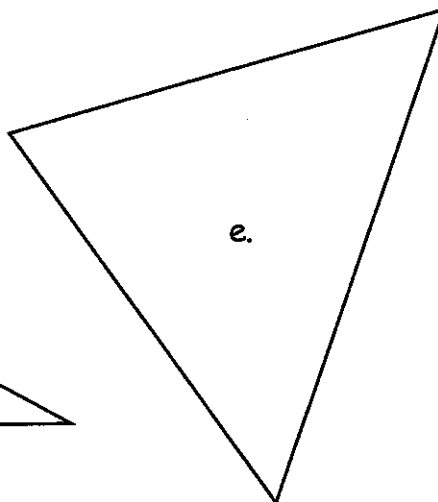
You may use tracing paper and trace the triangles and fold to find the lines of symmetry or you may use a reflect viewer.

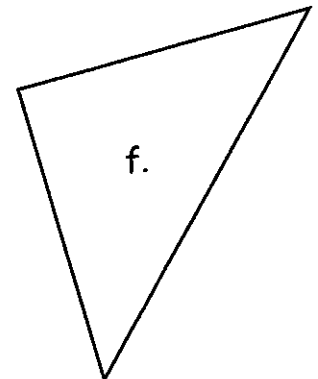














Name: _____

Naming Triangles by Angle

1. Match the definition to the term:

a. all three angles = 60°

acute

b. all three angles are less than 90°

obtuse

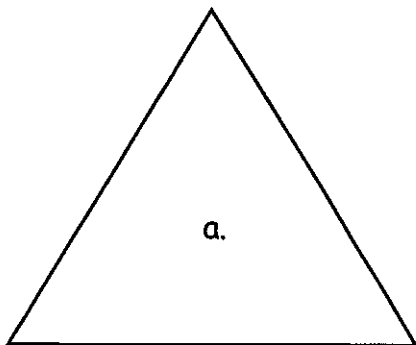
c. one angle measures 90°

equiangular/equilateral

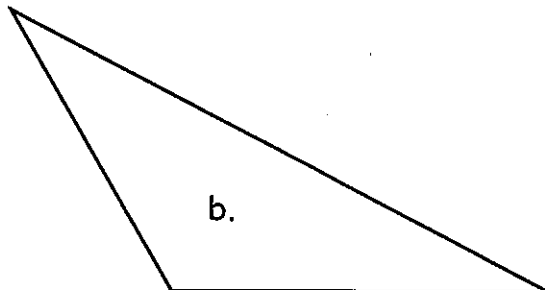
d. one angle measures greater than 90°

right

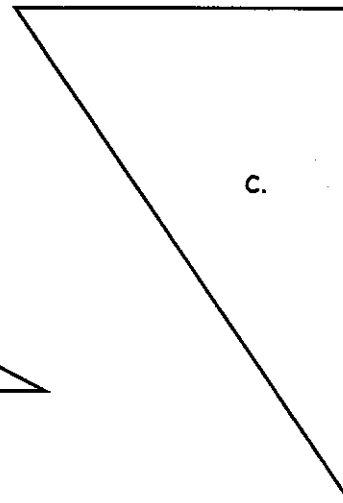
2. Measure and record the angles in each of the triangles. Use the measurements of the angles to classify the triangles.



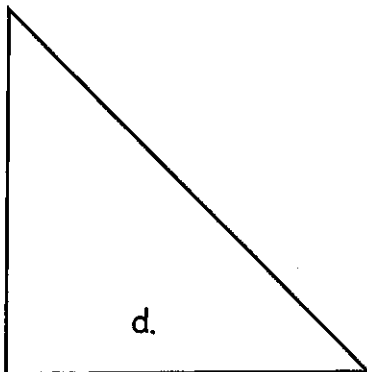
a.



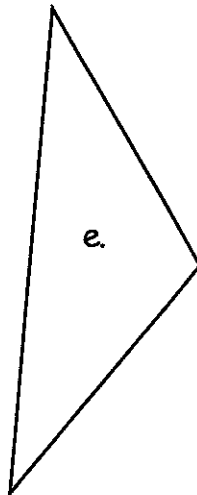
b.



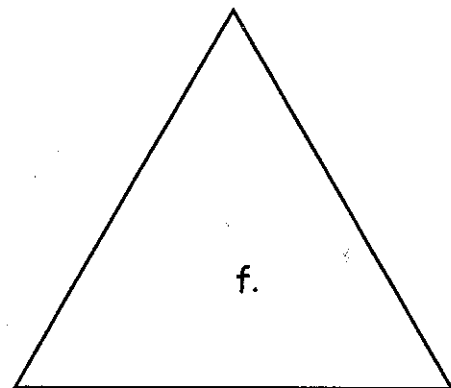
c.



d.



e.



f.

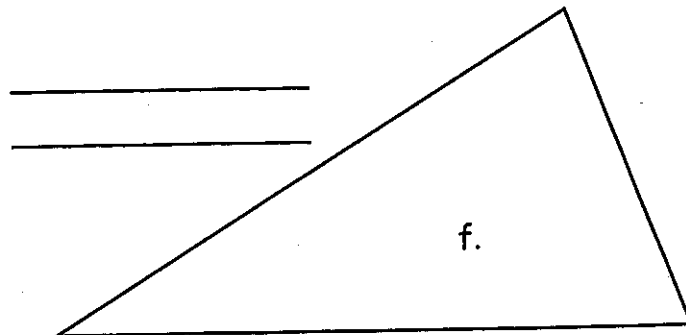
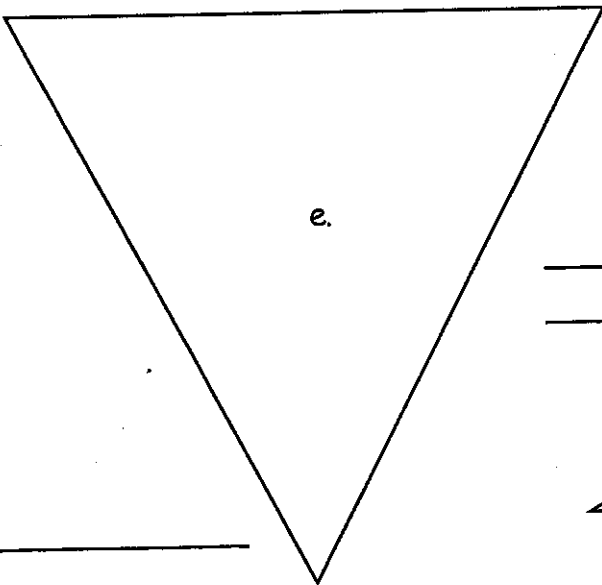
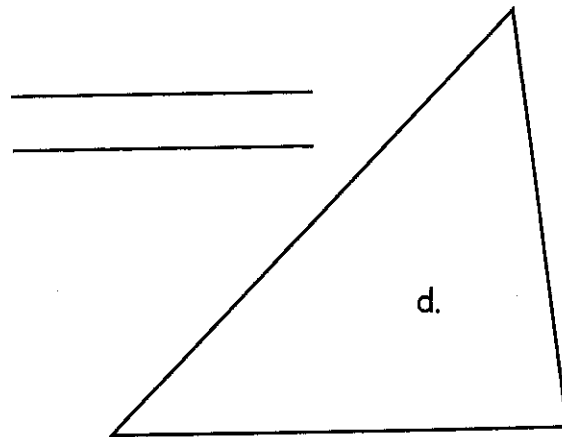
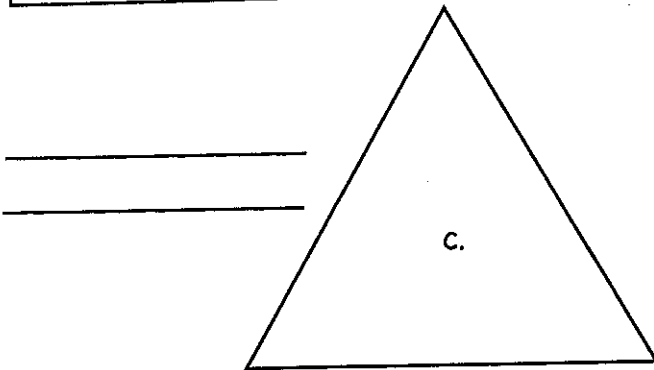
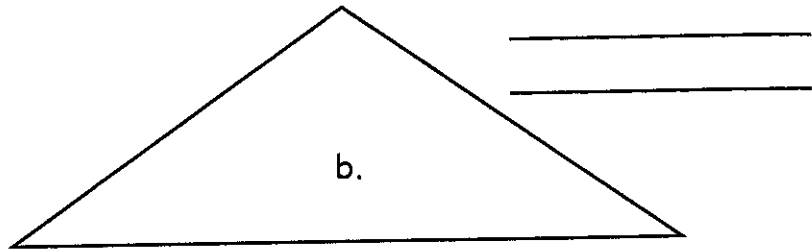
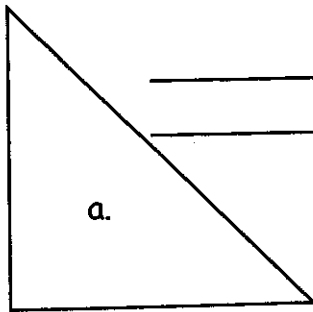


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More Than One Name

Recall that triangles can be named in more than one way: by side length and lines of symmetry (equilateral, isosceles, scalene) and by measurement of angles (equiangular/equilateral, right, acute, obtuse).

Name each of the following triangles in as many ways as possible.



Student Activity



Name: _____

What Have You Drawn?

In the space below, use a ruler to draw eight different triangles. Then, use your tools to classify each triangle. Show your work.

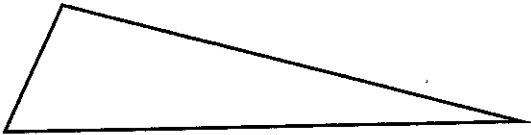


Name: _____

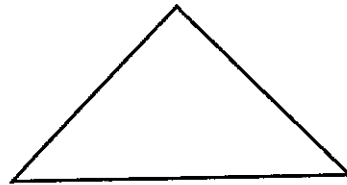
You Be the Teacher!

Imagine that you are the teacher. Your student, Sam, has just handed in an assignment on naming triangles by length of the sides. For each of the following triangles, determine if Sam has named the triangle correctly. If he has, draw a check mark beside the triangle. If he has not, draw an x and make the correction on the blank.

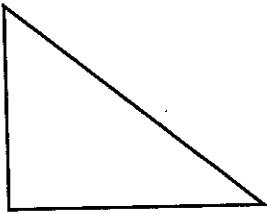
___ 1. Scalene _____



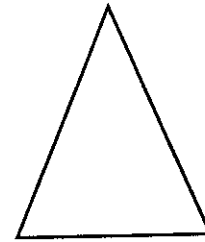
___ 5. Acute _____



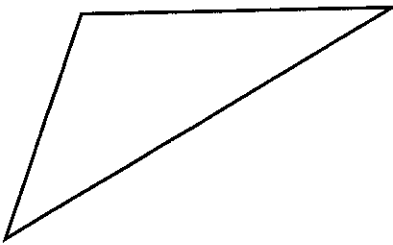
___ 2. Equilateral _____



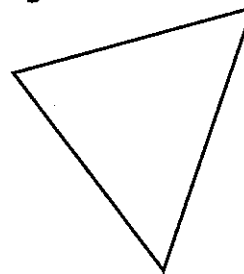
___ 6. Scalene _____



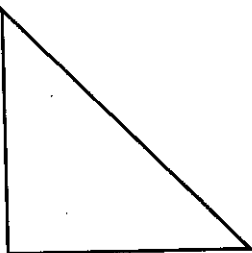
___ 3. Acute _____



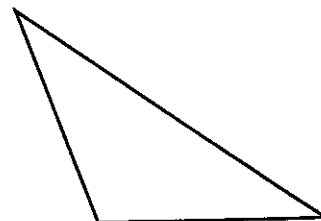
___ 7. Right _____



___ 4. Right Angle _____



___ 8. Isosceles _____





Name: _____

Classify without a Picture

1. Classify each triangle as equilateral, isosceles, or scalene.

e = equilateral, i = isosceles, s = scalene.

a. $\triangle XYZ$ with $XY = 8$ cm, $YZ = 10$ cm and $ZX = 8$ cm _____

b. $\triangle JKL$ with $JK = 10$ cm, $KL = 8$ cm and $LJ = 5$ cm _____

c. $\triangle RST$ with $RS = 7$ cm, $ST = 7$ cm and $TR = 7$ cm _____

d. $\triangle CAT$ with $CA = 2$ cm, $CT = 4$ cm and $AT = 6$ cm _____

e. $\triangle DOG$ with $DO = 4$ cm, $OG = 6$ cm and $GD = 4$ cm _____

2. Classify each triangle as acute, right, obtuse or equiangular.

a = acute, r = right, o = obtuse, e = equiangular

a. $\triangle MNO$ with $\angle M = 132^\circ$, $\angle N = 35^\circ$, and $\angle O = 13^\circ$ _____

b. $\triangle GHI$ with $\angle G = 55^\circ$, $\angle H = 90^\circ$, and $\angle I = 35^\circ$ _____

c. $\triangle PQR$ with $\angle P = 65^\circ$, $\angle Q = 58^\circ$, and $\angle R = 57^\circ$ _____

d. $\triangle BAT$ with $\angle B = 60^\circ$, $\angle A = 60^\circ$, and $\angle T = 60^\circ$ _____

e. $\triangle COW$ with $\angle C = 115^\circ$, $\angle O = 30^\circ$, and $\angle W = 35^\circ$ _____