Study the following.

triangle (**trye**-ang-guhl) - a three sided polygon.

scalene triangle (**skay**-leen **trye**-ang-guhl) - a triangle with all three sides of different length.

isosceles triangle (eye-**soss**-uh-leez **trye**-ang-guhl) - a triangle with two sides the same length.

equilateral triangle (ee-kwuh-**lat**-ur-uhl **trye**-ang-guhl) - a triangle with all three sides the same length.

acute triangle (uh-**kyoot** **trye**-ang-guhl) - a triangle with three acute angles (angles between 0º and 90º).

right triangle (**rite** **trye**-ang-guhl) - a triangle with one right angle (90º angle).

obtuse triangle (uhb-**tooss** **trye**-ang-guhl) - a triangle with one obtuse angle (between 90º and 180º).

equiangular triangle (ee-kwuh-**ang**-gyu-lur **trye**-ang-guhl) - a triangle with all three angles equal.

Say each word out loud and write it in the blank.

scalene_____
isosceles_____
equilateral_____
acute_____
obtuse_____
equiangular_____

Write each definition in your own words.

triangle

scalene triangle

isosceles triangle

equilateral triangle

acute triangle

right triangle

obtuse triangle

equiangular triangle

Write one sentence using each word.

scalene triangle
1.

isosceles triangle
1.

equilateral triangle
1.

acute triangle
1.

right triangle
1.

obtuse triangle
1.

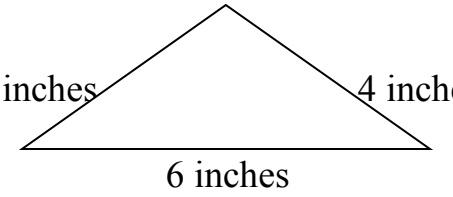
equiangular triangle
1.

Matching.

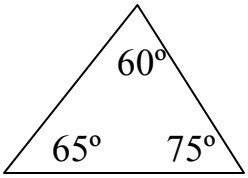
triangle	a triangle with two sides the same length.
scalene triangle	a triangle with all three sides of different length.
isosceles triangle	a triangle with all three sides the same length
equilateral triangle	a three sided polygon
acute triangle	a triangle with one right angle
right triangle	a triangle with three acute angles
obtuse triangle	a triangle with all three angles equal
equiangular triangle	a triangle with one obtuse angle

Draw two examples of each.

Examples: isosceles triangle- 4 inches 4 inches



Acute triangle



scalene triangle

isosceles triangle

equilateral triangle

acute triangle

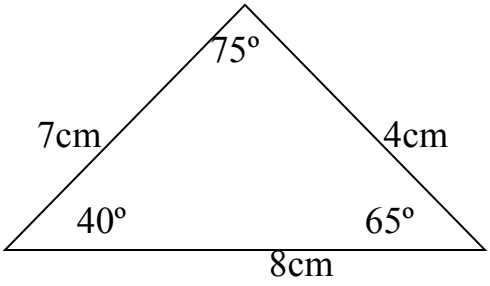
right triangle

obtuse triangle

equiangular triangle

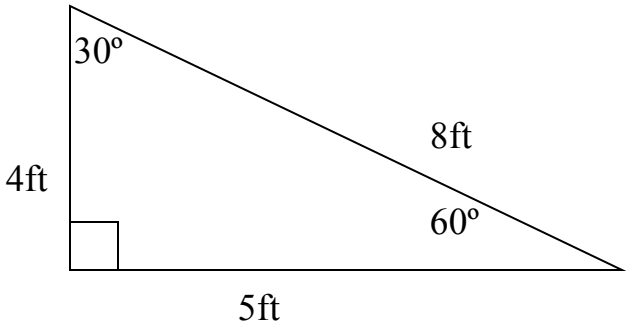
Name each triangle two ways.

Triangles can be named by the lengths of the sides, and by the size of the angles.



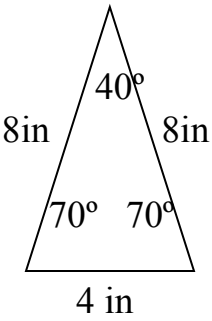
1. _____

_____



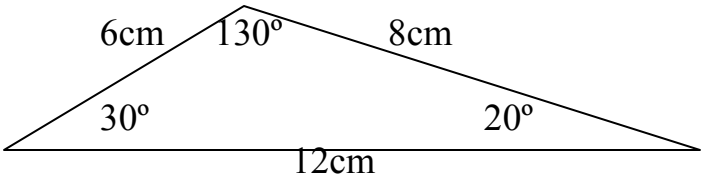
2. _____

_____



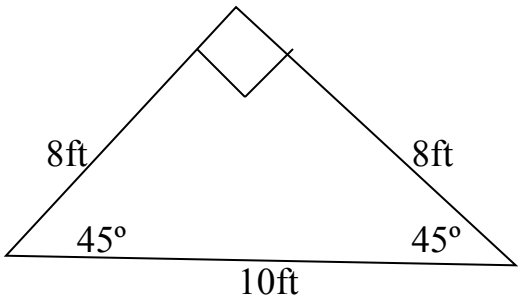
3. _____

_____



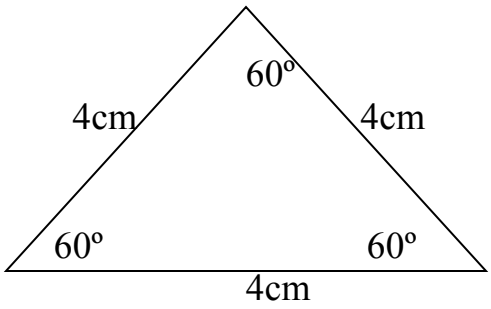
4. _____

_____



5. _____

_____



6. _____

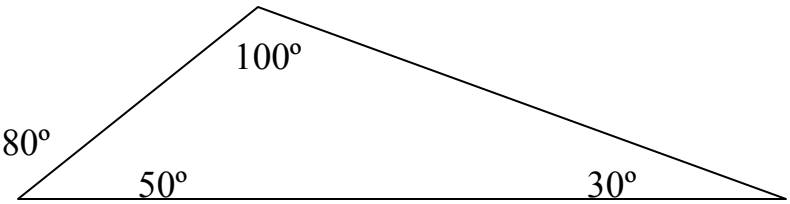
_____

Study the following.

All three angles in a triangle add up to 180º.

Example:

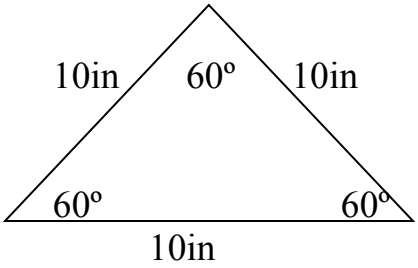
100º+50º+30º=180º



Equilateral and equiangular triangles are the same shape triangle.
Also, each angle is 60º.

Example:

60º+60º+60º=180º



Draw three examples of triangles with the angles adding up to 180º.

1.

2.

3.

Fill in the blanks.

_____ triangles and _____ triangles are the same shape. Each angle in one of these triangles measures _____ degrees.