

Name: \_\_\_\_\_

### Similarity and Congruence Print Activity

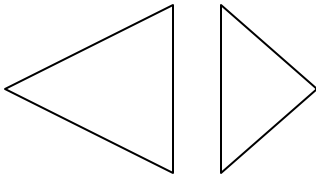
1. Check off **all** the correct conditions that make 2 triangles **congruent**:

☐ same shape  
☐ same size  
☐ corresponding angles equal  
☐ corresponding sides equal  
☐ same orientation

2. Check off **all** the correct conditions to make 2 triangles **similar**:

☐ same shape  
☐ same size  
☐ corresponding angles equal  
☐ corresponding sides equal  
☐ same orientation

3. Check of the condition that makes the statement true for Triangle 1.



Triangle 1      Triangle 2

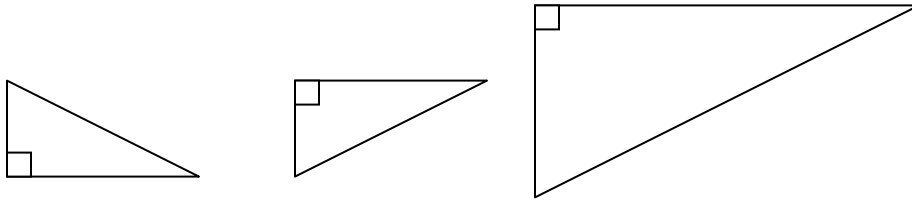
Triangle 1 is: ☐ congruent to Triangle 2.  
☐ similar to Triangle 2.  
☐ neither congruent nor similar to Triangle 2.

Explain why: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Check of the condition that makes the statement true for Triangle 3.



Triangle 1

Triangle 2

Triangle 3

Triangle 1 was flipped to create Triangle 2.

Triangle 2 was then increased in size proportionally to create Triangle 3.

Triangle 3 is: ☐ congruent to Triangle 1.

☐ similar to Triangle 1.

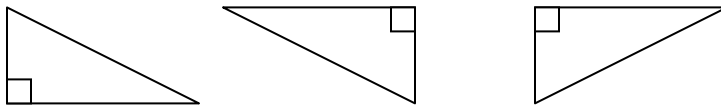
☐ neither congruent nor similar to Triangle 1.

Explain why: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Check of the condition that makes the statement true for Triangle 3.



Triangle 1

Triangle 2

Triangle 3

Triangle 1 was rotated to create Triangle 2.

Triangle 2 was then flipped to create Triangle 3.

Triangle 3 is: ☐ congruent to Triangle 1.

☐ similar to Triangle 1.

☐ neither congruent nor similar to Triangle 1.

Explain why: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. A class is told to draw a right triangle containing angles of  $25^\circ$  and  $65^\circ$ .
- a) All the triangles drawn by the class should be \_\_\_\_\_ in shape.  
(congruent/similar)
- b) If side lengths were also given, the triangles should be \_\_\_\_\_ in shape.  
(congruent/similar)
- c) Sketch 2 such triangles so they are:
- i) congruent
- ii) similar
7. A family picture was enlarged to hang on the wall. The original picture and the enlargement are \_\_\_\_\_ in shape.  
(congruent/similar)
8. A cherry pie was cut into 6 equal pieces. The pieces are \_\_\_\_\_ in shape.  
(congruent/similar)
9. A cameraman zooms in on an object to photograph a close-up. The original object and the developed picture are \_\_\_\_\_ in shape.  
(congruent/similar)