Similiarity 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 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 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 \underline{congruent} in shape.

b) If side lengths were also given, the triangles should be \underline{congruent} in shape.

c) Sketch 2 such triangles so they are:
   i) \underline{congruent}
   ii) \underline{similar}

7. A family picture was enlarged to hang on the wall. The original picture and the enlargement are \underline{similar} in shape.

8. A cherry pie was cut into 6 equal pieces. The pieces are \underline{congruent} in shape.

9. A cameraman zooms in on an object to photograph a close-up. The original object and the developed picture are \underline{similar} in shape.