NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Is it a Right Triangle?**

**Use blocks or tiles to build each of the triangles below and determine whether or not they appear to form a “right triangle”.**

**Example**: 2, 4, 5

**Hints**:

* First identify which sides would have to be the legs.
* Use grid paper to line up the blocks in the squares and build two sides of the triangle to be equal to the lengths of the identified legs. Ensure that the legs form a 90 degree angle.
* Finally, build the hypotenuse and check to see If the hypotenuse ends up being the proper length to fit the exact length of the third side of the triangle.

**Now You Try! Will each set of sides create a right triangle? Sketch a picture of what the triangle would look like.**

1. 4, 5, 7 2. 3, 4, 5

**You can also use the Pythagorean Theorem to determine if three side lengths would form a right triangle.**

1. 4, 5, 7 2. 3, 4, 5

**Use this new strategy to determine whether or not the following sets of sides would form a right triangle.**

 3. 6, 9, 4 4. 10, 6, 8 5. 12, 4, 9