

Two Cool Dilations Directions

1.

- Draw a line through p and the 1st vertex.
- Draw a line through p and the 2nd vertex.
- Draw a line through p and the 3rd vertex.

2.

- Measure the distance from p to the 1st vertex.
- Measure the distance from p to the 2nd vertex.
- Measure the distance from p to the 3rd vertex.

3.

- Put a point on the 1st line 2 times the distance from p.
- Put a point on the 2nd line 2 times the distance from p.
- Put a point on the 3rd line 2 times the distance from p.

4.

- Connect the points to make a triangle.

5.

- Repeat #3 but this time use half the distance from p.
- Connect the points to make a triangle.

NOTE: When you are done you should have 3 triangles.

6. How much bigger are the side lengths of the new triangles when you compare it to the original triangle?