

5.G.B.4 Properties of Congruent and Similar Figures – I

5.G.B.4: Classify two-dimensional figures in a hierarchy based on properties.

1. Explain the similarity and difference between Congruent and Similar figures.

Similarity:

Difference:

2. Identify the figures below as congruent, similar or neither.

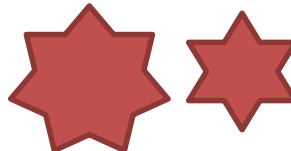
A.



B.



C.



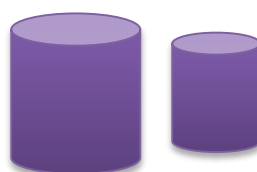
D.



E.



F.



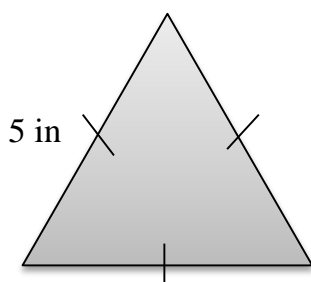
Solution:

- A.
- B.
- C.
- D.
- E.
- F.

3. True or False

- a. Two figures with the same measure of angle is congruent. _____
- b. Similar figures have the same shape, but not the same size. _____
- c. Two shapes are similar if their corresponding sides are proportional. _____
- d. Congruent figures sometimes do not have the same length. _____
- e. All similar figures are congruent to each other. _____
- f. All equilateral triangles are similar. _____

4. Draw a triangle similar to the given below.



Solution:

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Answer Key

5.G.B.4: Classify two-dimensional figures in a hierarchy based on properties.

1. **Similarity:** Congruent and similar figures have the same shape.
Difference: Congruent figures have the same dimensions while similar figures have proportional dimensions.
2.
 - a. Similar
 - b. Congruent
 - c. Neither
 - d. Congruent
 - e. Similar
 - f. Similar
3.
 - a. False
 - b. False
 - c. True
 - d. False
 - e. False
 - f. True
4. (Drawing)