

1. Corr

Learning

Targets

I understandMATHEMATICAL SIMILARITYThat means...

- A. I know the definition of similar and congruent
- same size, same shape, sf=1 $symbolis \cong$
- B. I can tell if 2 figures are mathematically similar.
- C. I can write rules to translate and dilate figures.
- D. I can find the missing length of similar figures.
- E. I can determine corresponding angles and sides of similar figures.
- F. I can find the scale factor and area factor between 2 similar figures.
- G. I can use similarity to solve real-world problems.
- 1. Corresponding Sides/ Corresponding Angles: matching sides, in the same location on the shape



2. Scale Factor

how many times LONGER the side lengths get.

enlarge: s.f. greater than 1 shrink: s.f. between 0 and 1

3. Area Factor:

how many times BIGGER the AREA get

Area factor = scale factor X scale factor $(s.f.)^{\circ}$

4. Similar:

1. same shape symbol is ~,

- 2. same angle measures
- 3. grow proportionally, same scale factor

5. Dilate:

enlarge or shrink proportionally, multiplication rules!

6. Translate

move a figure, addition/subtraction rules.

 $\underline{\text{up}}$ - add to y $\underline{\text{right}}$ -add to x $\underline{\text{down}}$ - subtract from y $\underline{\text{left}}$ -subtract from x

Jnit Vocabulary