

**TRANSFORMATIONS: DILATION**

Label each of the following as either similar or congruent.

Similar

A triangle with a side length of 1 and a triangle with a side length of 2.

Congruent

A square with a side length of 1 and a square with a side length of 1.

Congruent

A rectangle with a side length of 1 and a rectangle with a side length of 1.

Congruent

A rectangle with a side length of 1 and a rectangle with a side length of 2.

\* Dilation only dilates, lead to similarity

Describe each of the following as a dilation, translation, reflection, or rotation.

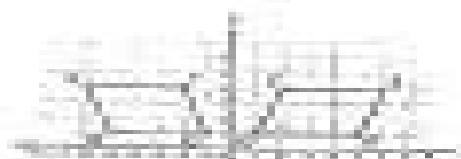
outgoing Dilation with a scale factor of 3

outgoing Dilation with a scale factor of 3 and translation 2 units down

outgoing Translation 1 unit right and 2 units down

outgoing Reflection over the y-axis

Parallelogram PQRS is reflected over the y-axis to create parallelogram PQ'RS'. Use this information to answer questions 1 and 2.



1. Which angle is congruent to  $\angle Q$ ?

- A.  $\angle P$   
B.  $\angle R$   
C.  $\angle Q'$   
D.  $\angle S'$

2.  $\overline{PQ}$  is parallel to  $\overline{RS}$ . Which side is parallel to  $\overline{P'Q'}$ ?

- A.  $\overline{P'S'}$   
B.  $\overline{Q'S'}$   
C.  $\overline{P'R'}$   
D.  $\overline{R'S'}$

Triangle DEF is the result of a dilation of triangle ABC with the center of dilation at the origin and a scale factor of 1/2. Which of the following must be true?

- A.  $\angle D$  is congruent to  $\angle A$ .  
B.  $\angle E$  is congruent to  $\angle B$ .  
C.  $\angle F$  is congruent to  $\angle C$ .  
D.  $\angle D$  is congruent to  $\angle C$ .



\* Remember that angles don't change, only in a dilation.

Triangle GHI is the result of a dilation of triangle JKL with the center of dilation at the origin and a scale factor of 2. Use this information to answer questions 3 and 4.



3. Which is a pair of corresponding, congruent angles?

- A.  $\angle J$  and  $\angle G$   
B.  $\angle K$  and  $\angle H$   
C.  $\angle L$  and  $\angle I$   
D.  $\angle J$  and  $\angle I$

4. Which is the length of the side opposite the angle in the diagram?

- A.  $\overline{JK}$  is parallel to  $\overline{GH}$ . Because a dilation always is similar to the original figure.  
B. The ratio of  $\overline{JK}$  to  $\overline{GH}$  is equivalent to the ratio of  $\overline{KL}$  to  $\overline{HI}$ .  
C.  $\overline{JK} = \overline{GH}$ .  
D.  $\overline{JK} = \overline{HI}$  (Sides across equal in a dilation)

# Grade Math Study Guide Answers Key

**L Reisser**



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