

TRANSFORMATIONS: DILATIONS

Label each of the following as either similar or congruent.

Similar

A dilation with a scale factor of 2 and a translation 3 units horizontally.

Congruent

A dilation with a scale factor of 1/2 and a translation 3 units horizontally.

* Dilation only dilates, lead to similarity

Congruent

A dilation of 1/2 followed by a translation 3 units horizontally.

Congruent

A dilation over the y-axis followed by a translation 3 units horizontally.

For each transformation, describe the transformational properties of your dilations that lead to:

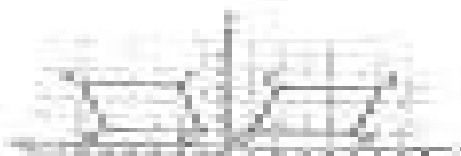
outgoing Dilation with a scale factor of 3

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

outgoing Translation 4 units right and 2 units down

outgoing Reflection over the y-axis

Parallelogram $QRST$ is reflected over the y -axis to create parallelogram $Q'R'S'T'$. Use this information to answer questions 1 and 2.



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

A. $\angle Q'$

☒ C. $\angle Q'$

B. $\angle R$

D. $\angle T'$

2. QS is parallel to $Q'T'$. Which side is parallel to $Q'T'$?

A. $Q'R'$

C. $Q'S'$

☒ B. $Q'R'$

D. $Q'S'$

Triangle DEF is the result of a dilation of $\triangle ABC$ with the center of dilation at the origin and a scale factor of 1/3. Which of the following must be true?

☒ A.

$\angle E$ is congruent to $\angle A$.

☐ B.

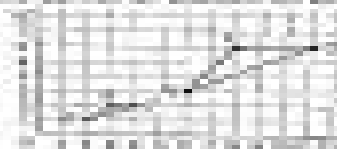
$\angle F$ is congruent to $\angle C$.

☐ C.

$\angle D$ is congruent to $\angle A$.

☐ D.

$\angle D$ is congruent to $\angle C$.



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

Triangle DEF is the result of a dilation of $\triangle ABC$, with the center of dilation the origin and a scale factor of 3. Use this information to answer questions 3 and 4.



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

A. $\angle A$ and $\angle E$

B. $\angle A$ and $\angle F$

☒ C. $\angle B$ and $\angle E$

D. $\angle B$ and $\angle F$

4. What is $\angle D$ in the diagram in the diagram?

A. $\angle D$ is equal to $\angle A$. Because a dilation keeps a shape similar to the original figure.

B. The ratio of $\angle D$ is equivalent to the ratio of $\angle A$.

C. $\angle D = 100^\circ$.

☒ D. $\angle D = 90^\circ$ (Angles aren't equal in a dilation.)

Grade Math Study Guide Answers Key

Lingjun Ying



Grade Math Study Guide Answers Key:

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