Level 1 - One of each type (Easy)

1) Graph the original figure, then perform a dilation using the given scale factor.

2) The figures are similar. Find the missing value.


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2) Are they similar? Show your work either way. If they are similar, write a similarity statement.

5) Which sequence of transformations will take figure $A$ onto figure $B$ ?

## Level 2 - One of each type (Medium)

6) Graph the original figure, then perform a dilation using the given scale factor.
$T(-8,-4) R(-8,8) A(4,6) P(4,-2), k=\frac{1}{4}$

7) Are they similar? Show your work either way. If they are similar, write a similarity statement.

8) Are they similar? Show your work either way. If they are similar, write a similarity


9) Which sequence of transformations will take figure $A$ onto figure B? (There are two that work!)
A. Translation 5 units right, then dilation using a scale factor of 2 B. Translation 5 units right, then dilation using a scale factor of 3 C. Reflection across the x-axis, then dilation using a scale factor of 2 D. Translation 6 units right and 1 unit up, then dilation using a scale factor of 1.5
E. Dilation using a scale factor of 2, then translation 10 units right


## Level 3 - One of each type (Hard)

11) Graph the original figure, then perform a dilation using the given scale factor.
$B(3,9) T(7,8) W(9,2), k=\frac{2}{3}$

12) $\Delta T U R \sim \Delta K E Y$. Find a, b, and c.

13) Are they similar? Show your work either way. If they are similar, write a similarity statement.
14) Are they similar? Explain your reasoning. If they are similar, write a similarity statement.

15) Which sequence of transformations will map figure $A$ onto figure B ?
followed by
$\qquad$

