

DILATIONS

Geometry

Dilations Worksheet

State whether a dilation with the given scale factor is a reduction or an enlargement.

1. $k = 3$

2. $k = \frac{1}{3}$

3. $k = \frac{5}{4}$

4. $k = 0.93$

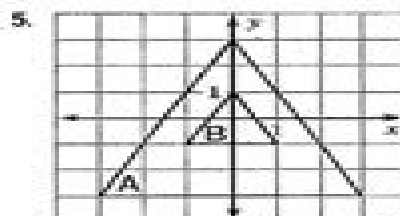
Enlarge

Reduce

Enlarge

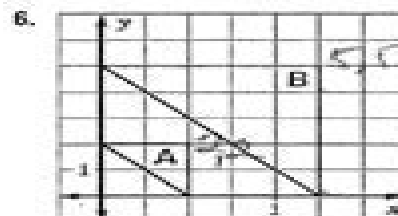
Reduce

Determine whether the dilation from Figure A to Figure B is a reduction or an enlargement. Then find its scale factor.



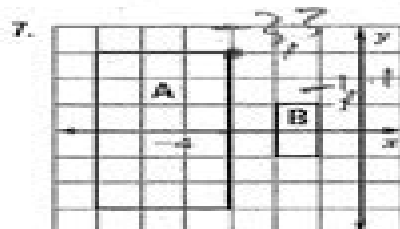
$A \rightarrow B \quad \frac{B}{A} = \frac{1}{3}$
 $(0, 3) \rightarrow (0, 1)$
 $(3, -3) \rightarrow (1, -1)$
 $(-3, -3) \rightarrow (-1, -1)$

Reduction $k = \frac{1}{3}$



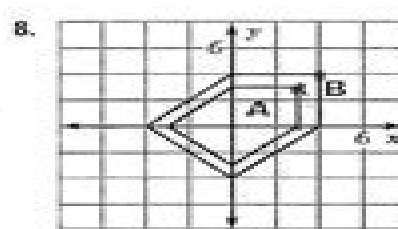
$A \rightarrow B$
 $2, 2 \rightarrow 5, 5$
 $\frac{5}{2}$

Enlargement $k = \frac{5}{2}$



$-3, 3 \rightarrow -1, 1$

Reduction $k = \frac{1}{3}$



$(1.5, 1.5) \rightarrow (2, 2)$
 $\frac{2}{1.5} = \frac{4}{3}$

Enlargement $k = \frac{4}{3}$

Point A is a vertex of a polygon. Point R is the image of A after the dilation. Find the scale factor of the dilation.

9. A (3, 4) and R (9, 12)

10. A (9, 12) and R (6, 8)

11. A (-2, -3) and R (-10, -15)

$A \rightarrow R \quad \frac{R}{A} = \frac{9}{3} = 3$
 $\frac{12}{4} = 3 \quad k = 3$

$\frac{6}{9} = \frac{2}{3}$
 $\frac{8}{12} = \frac{2}{3} \quad k = \frac{2}{3}$

$\frac{-10}{-2} = 5$
 $\frac{-15}{-3} = 5 \quad k = 5$

A line segment has the given endpoints. Use the scale factor to write the ordered pairs after the dilation.

12. A(1, 1), B(3, 1), and $k = 2$

13. A(4, 4), B(8, 12), and $k = \frac{3}{4}$

14. A(0, 0), B(-3, 2), and $k = 5$

$A'(2, 2) \quad B'(6, 2)$

$A'(3, 3) \quad B'(6, 9)$

$A'(0, 0) \quad B'(-15, 10)$

Answer Key 9 5 Dilations Geometry

Kathleen Armour



Answer Key 9 5 Dilations Geometry:

Tiered Geometry Assignment--Applying Dilations Wendy Conklin,2014-02-01 This tiered assignment offers multilevel activities based on key mathematical skills Written specifically for mathematics teachers this tiered lesson helps facilitate the understanding and process of writing differentiated lessons for all students

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Pattern Recognition, 11th International Conference ,1992 **Mathematical Reviews** ,2005 **Government reports annual index** ,199? *Notices of the American Mathematical Society* American Mathematical Society,1983 Contains articles of significant interest to mathematicians including reports on current mathematical research **Report** ,1999

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