
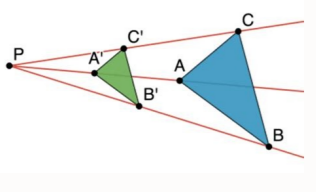


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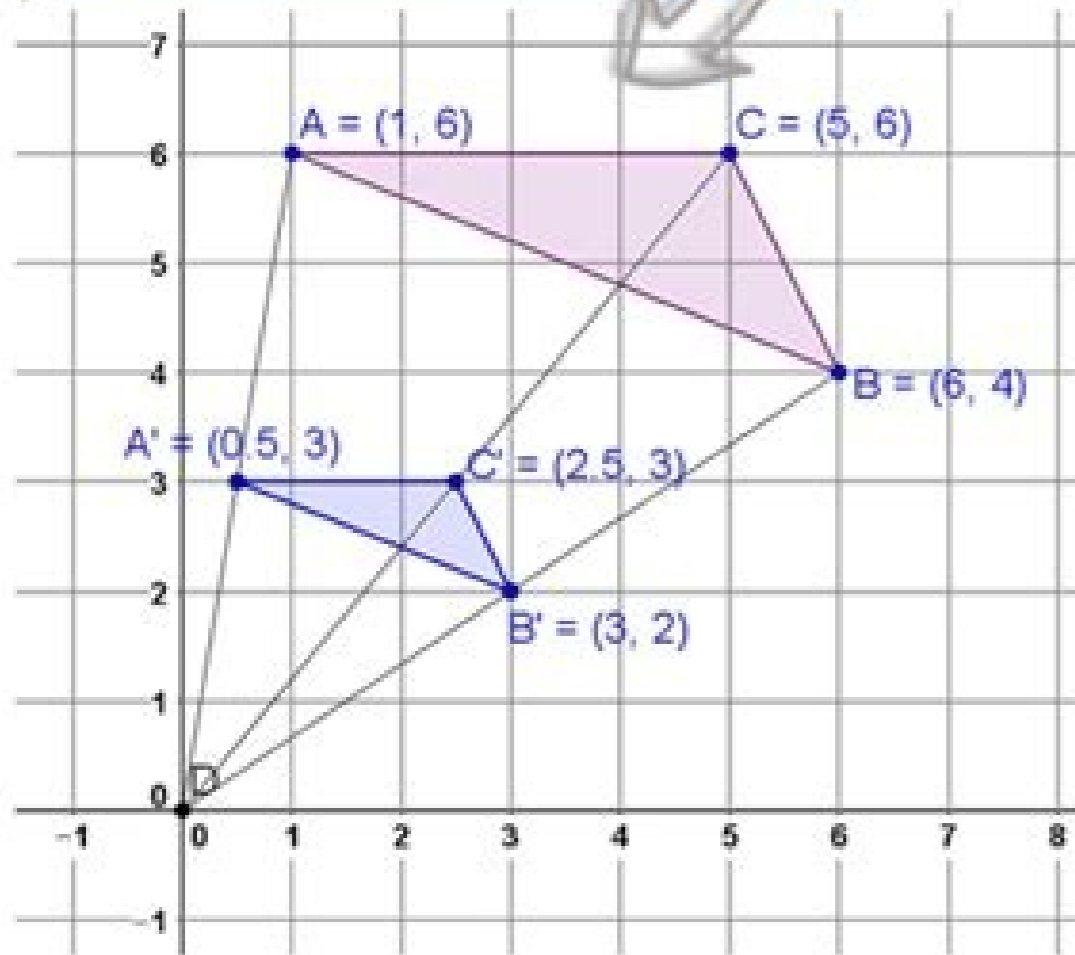
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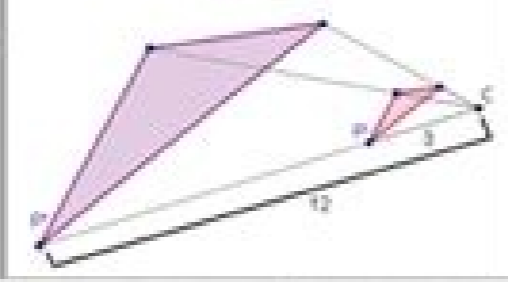
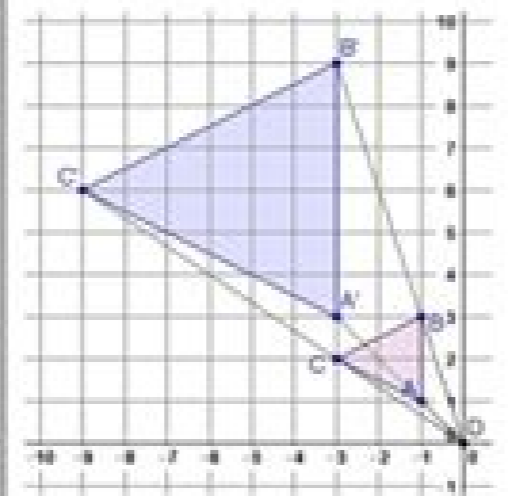
Dilations

Dilation is a transformation of $\triangle ABC$ with a scale factor of k to produce $\triangle A'B'C'$.

A dilation is a transformation in which a figure is **enlarged** or **reduced** with respect to a fixed point C called the **center of dilation** and a scale factor k , which is the ratio of the lengths of the corresponding sides of the image and the preimage.



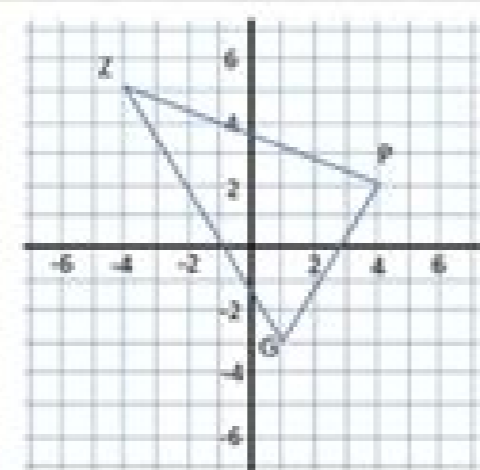
Find the scale factor of the dilation. Is the dilation a reduction or enlargement?



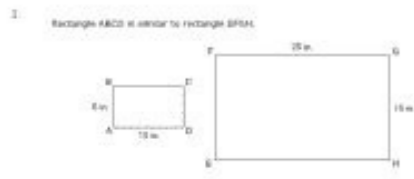
If $P(x, y)$ is the preimage of a point, then its image after a dilation centered at the origin $(0, 0)$ with scale factor k is the point $P'(kx, ky)$.

Graph $\triangle RST$ with vertices $R(2, 0)$, $S(2, 2)$, and $T(1, 0)$. Then graph its dilation if $k = 3$.

What are the images of the vertices of $\triangle PZG$ for a dilation with center $(0, 0)$ and scale factor $-\frac{1}{4}$?

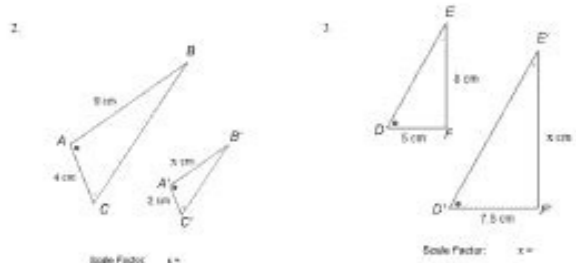


Name: _____ Class: _____ Date: _____
 The Math Learning Center
 Dilations & Finding Scale Factor Worksheet



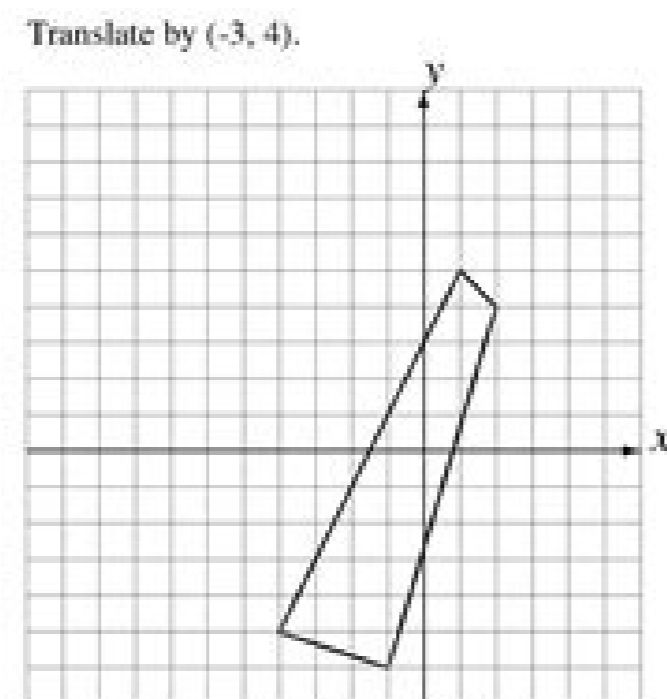
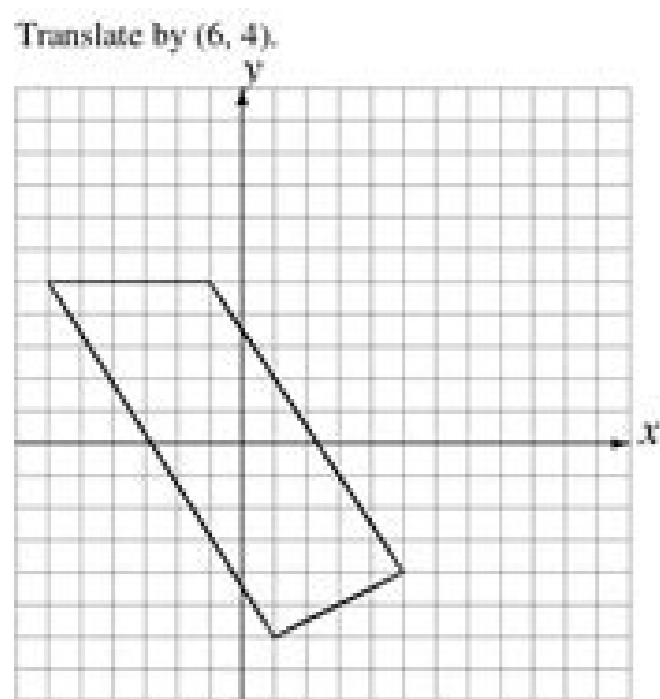
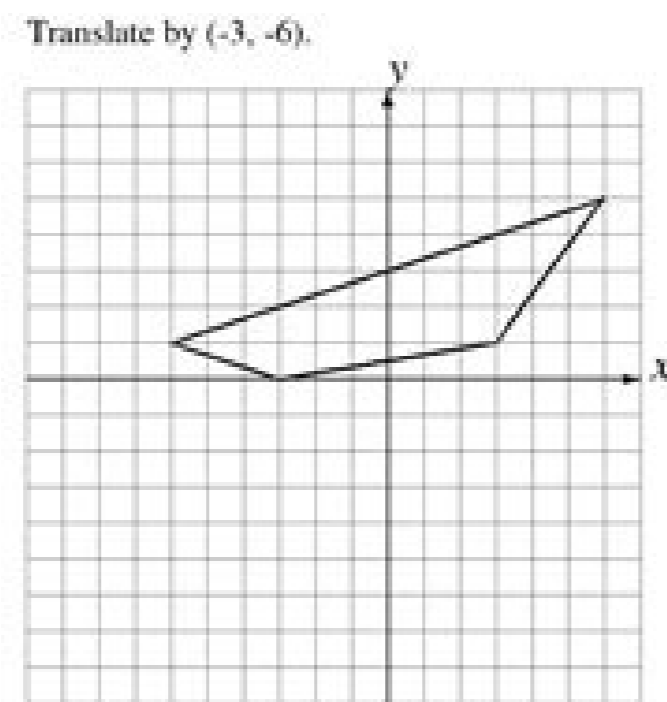
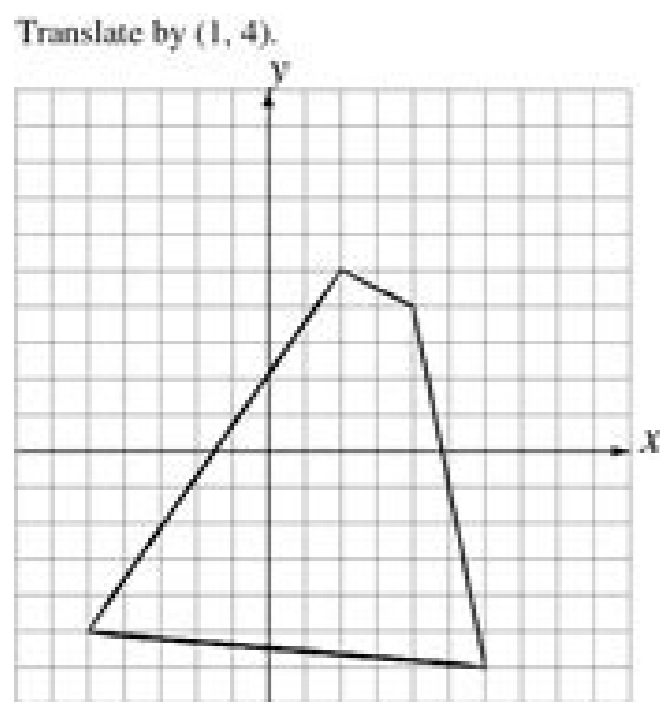
- What is the scale factor from rectangle ABCD to rectangle PQRS?
- A. $\frac{1}{3}$
 - B. $\frac{1}{4}$
 - C. $\frac{1}{2}$
 - D. $\frac{1}{3}$

Write the scale factors and values for x for the pairs of similar triangles below.



Translations (F)

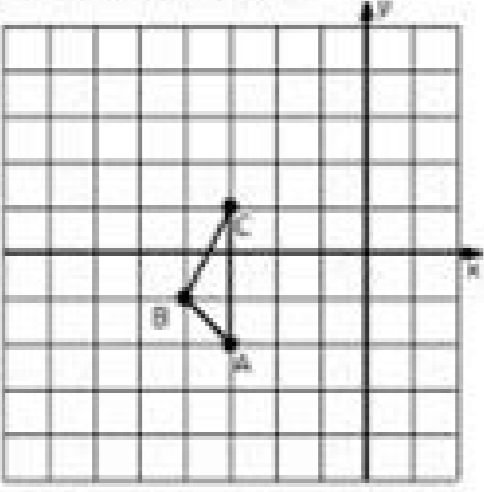
Draw each translated image.



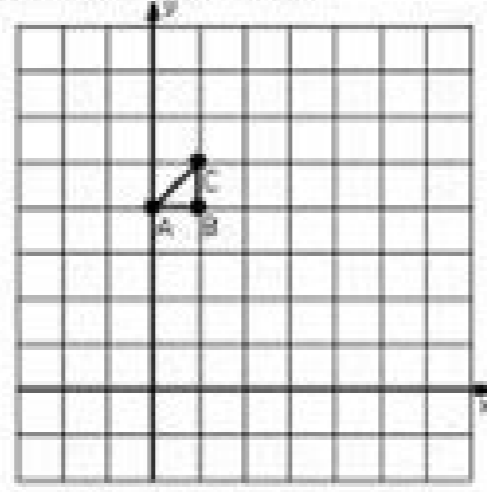
Dilations (H)

Instructions: Draw and label the dilated image for each triangle.
Label the center of dilation.

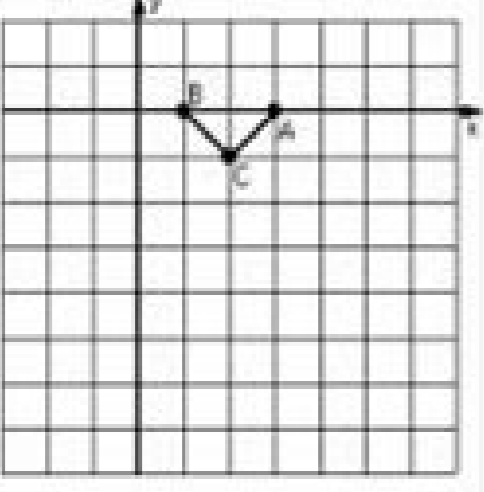
1) Dilation scale = 2, center $D(5, 1)$



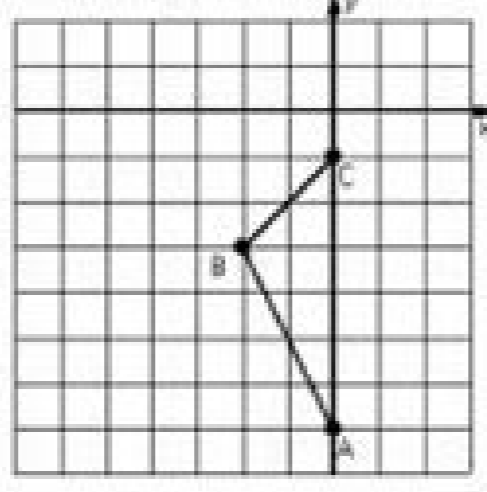
2) Dilation scale = 3, center $D(1, 4)$



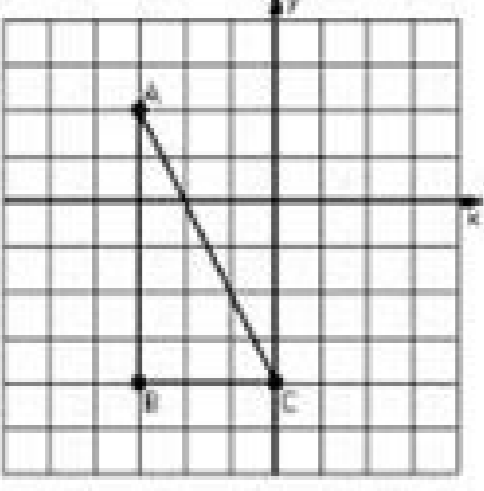
3) Dilation scale = 4, center $D(2, 0)$



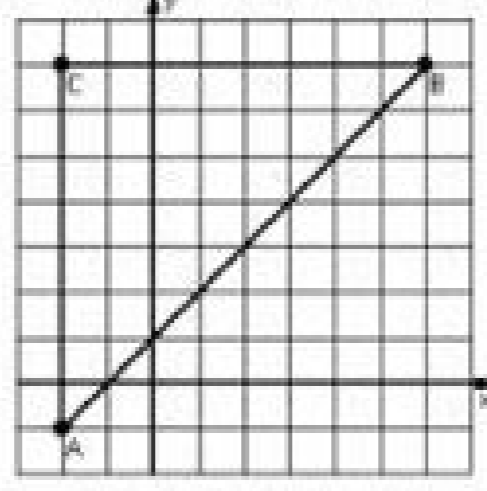
4) Dilation scale = 1/2, center $D(-2, 5)$



5) Dilation scale = 1/2, center $D(0, 2)$



6) Dilation scale = 1/4, center $D(2, 3)$



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In this unit, students will: Examine orientation and congruence of transformations. In reference to the center of dilation and the scale factor, plot the new coordinates to draw the dilated shapes. Show Step-by-step Solutions Try the free Mathway calculator and problem solver below to practice various math topics. Please submit your feedback or enquiries via our Feedback page. To perform dilations, a scale factor and a center of dilation are needed. This unit bundles expectations that address algebraic and graphical representations of translations, reflections, rotations and dilations. How to Dilate Objects On The Coordinate Plane? Dilation How to perform a dilation of a point with center other than (0,0), how to determine the scale factor of a dilation? In this lesson, we will look at dilations in geometry. Finding New Coordinates - Type 2 Figure out the vertices of the dilated figure using the scale factor. Show Step-by-step Solutions Dilations How to identify and construct dilations using proportions and scale factors? Drawing the Dilated Shapes Each printable dilation worksheet for grade 8 and high school encompasses six unique shapes on the grid. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. A dilation is a non-rigid transformation, which means that the original and the image are not congruent. Sample our free worksheet to test your skills. Included here are umpteen printable worksheets to help 8th grade and high school students hone in on finding the scale factor, identifying the dilation type, determining the new coordinates and drawing the dilated shapes with the center as origin. Writing the Scale Factor Keenly observe the figures A and B on the coordinate plane, and find the scale factor based on their measures in the worksheets featured here. Kindly download them and print. This tutorial reviews how to dilate an object on the coordinate plane when the center of dilation is the origin and also when the center of dilation is not the origin. Recapitulate the concept with the dilation revision pdf worksheets presented here. Identifying the Type of Dilation Identify whether the dilation is an enlargement or a reduction in these two-part worksheet pdfs. What is dilation in geometry? We welcome your feedback, comments and questions about this site or page. They are, however, similar figures. If the scale factor is larger than 1, the image is larger than the original; if the scale factor is less than 1, the image is smaller than the original. - Compare and contrast a shape and its dilation as well as use an algebraic Page 2 Examples, solutions, videos, worksheets, games, and activities to help Geometry students learn about transformations on the coordinate plane. Dilation is a transformation, that stretches or shrinks the original figure presented on the grid based on the scale factor. Printing Help - Please do not print worksheets with grids directly from the browser. Math Dilations Students learn that when the dimensions of a figure are increased or decreased to create a new figure that is similar to the original figure, the transformation is called a dilation. Draw the dilated image on the xy-plane to complete the exercise. A scale factor less than one indicates reduction while a scale factor greater than one represents enlargement.

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