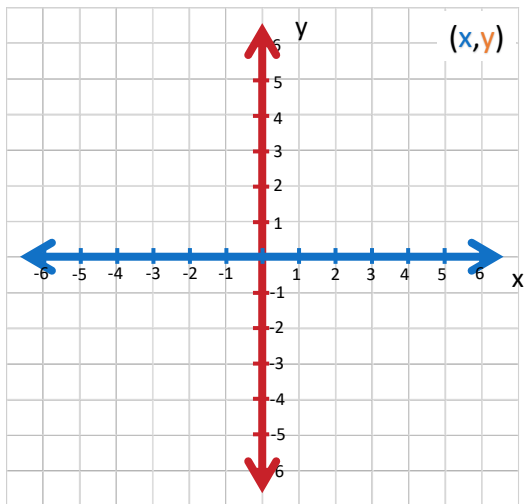


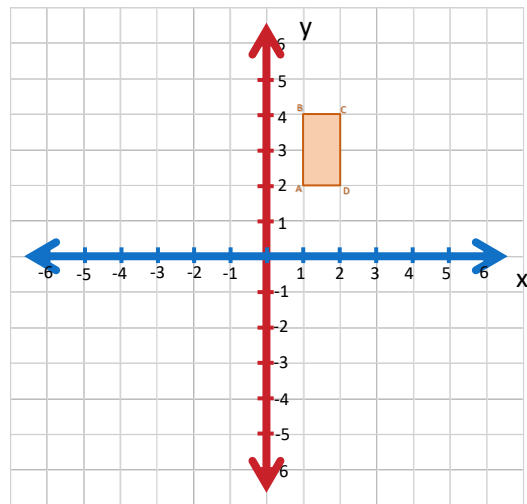
Dilations on the Coordinate Plane

Warmup

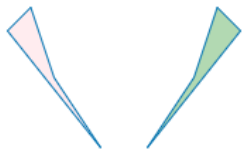
1. Use the points A:(-2,-5), B:(-3,-6), C:(-6,-6), D:(-5,-4) to graph a polygon, then identify it.



2. Plot the translation of the quadrilateral 4 to the right and 2 up.



3. What transformation is shown?



4. Identify each quadrilateral



(A) parallelogram

(B) trapezoid

(C) square

(D) Rhombus

(E) rectangle

I. Dilations

Homeschool



Honor Roll

Learn ~ Persevere ~ Succeed

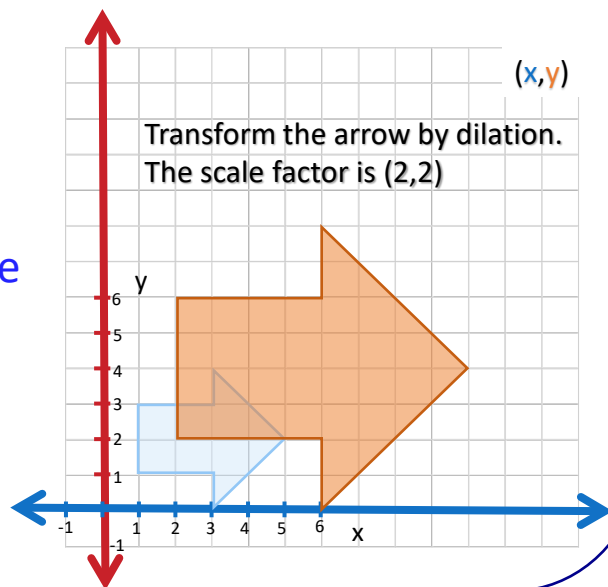
Pre-Algebra and Geometry I

Wendy Harper

www.HsHonorRoll.com

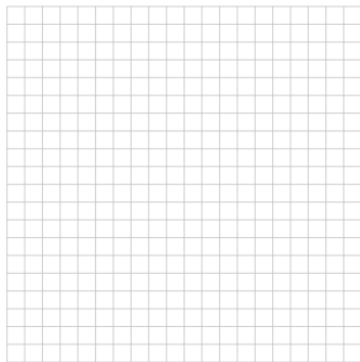
Dilation: The enlarging or shrinking of a figure on a plane or coordinate system by a scale factor.

Scale Factor: The amount the x and y-values are multiplied by to calculate the new coordinates of the figure.



Draw each figure.

A square with side = 4



The dilation with scale factor (3,3) of a square with side = 4



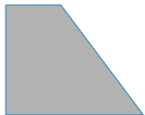
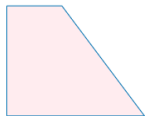
The resulting shape is a

The dilation with scale factor (3,1) of a square with side = 4

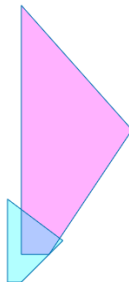


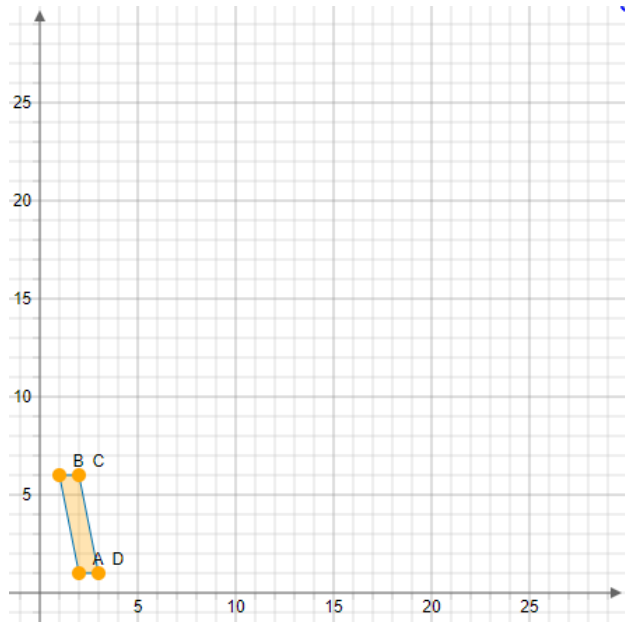
The resulting shape is a

5. What transformation
is shown?



6. What transformation
is shown?





Plot the dilation of the quadrilateral with a (3,4) scale factor.

Quadrilateral ABCD is best defined as a

7. Plot the dilation of the quadrilateral with a $(2,3)$ scale factor.

Quadrilateral ABCD is best defined as a

