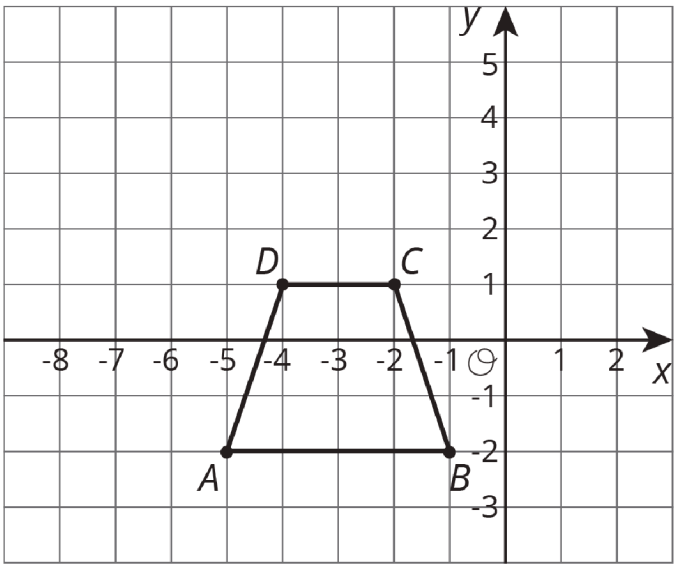
Card Sort: Matching Dilations on a Coordinate Plane

1



Dilate the trapezoid using center $(-1, -2)$ and scale factor $\frac{3}{2}$

Card Sort: Matching Dilations on a Coordinate Plane

C

The polygon with vertices at:

$A' = (-7, -2)$

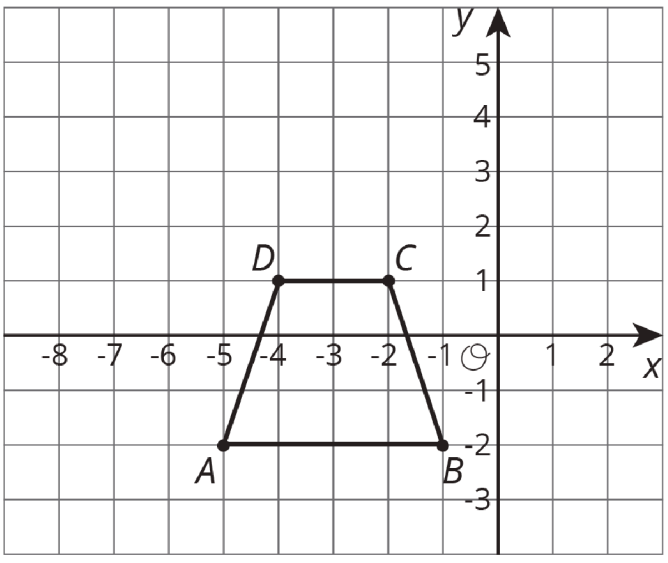
$B' = (-1, -2)$

$C' = (-2\frac{1}{2}, 2\frac{1}{2})$

$D' = (-5\frac{1}{2}, 2\frac{1}{2})$

Card Sort: Matching Dilations on a Coordinate Plane

2



Dilate the trapezoid using center $(-3, 4)$ and scale factor $\frac{1}{2}$.

Card Sort: Matching Dilations on a Coordinate Plane

A

The polygon with vertices at:

$A' = (-4, 1)$

$B' = (-2, 1)$

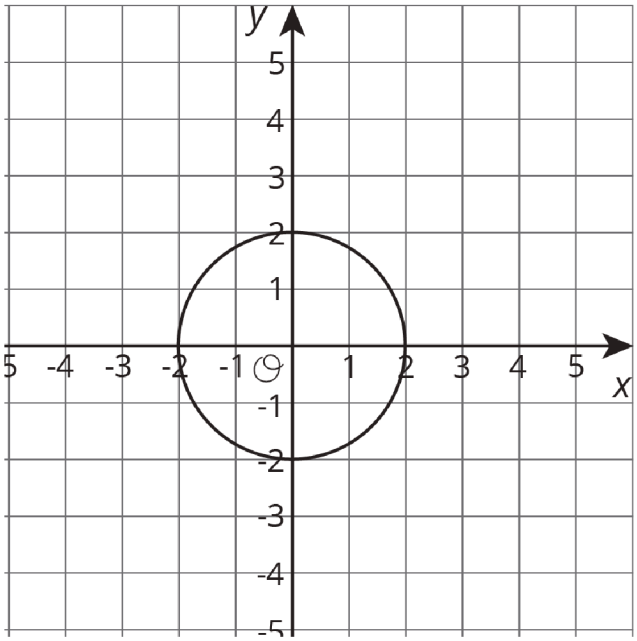
$C' = (-2\frac{1}{2}, 2\frac{1}{2})$

$D' = (-3\frac{1}{2}, 2\frac{1}{2})$

CC BY NC Illustrative Mathematics, based on IM 6–8 Math, CC BY Open Up Resources.

Card Sort: Matching Dilations on a Coordinate Plane

3



Dilate the circle using center $(0, 0)$ and scale factor 2.

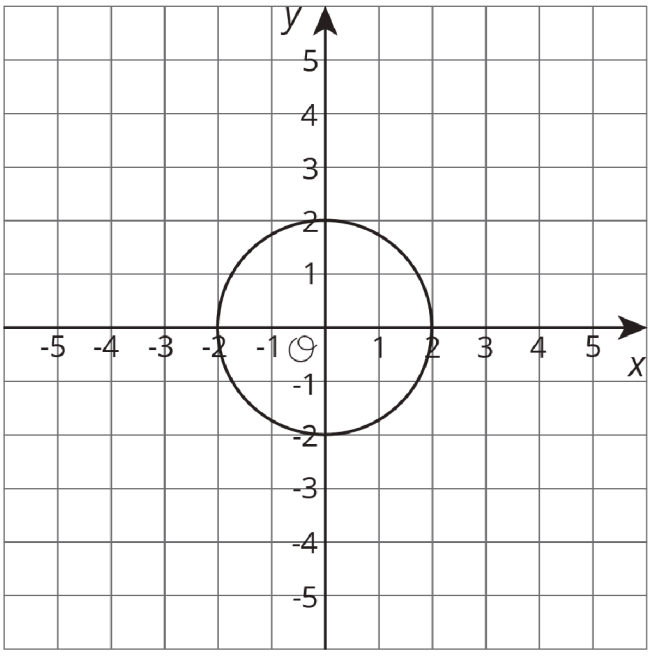
Card Sort: Matching Dilations on a Coordinate Plane

B

The circle with center $(0, 0)$ and radius 4.

Card Sort: Matching Dilations on a Coordinate Plane

4



Dilate the circle using center $(0, 0)$ and scale factor $\frac{1}{2}$.

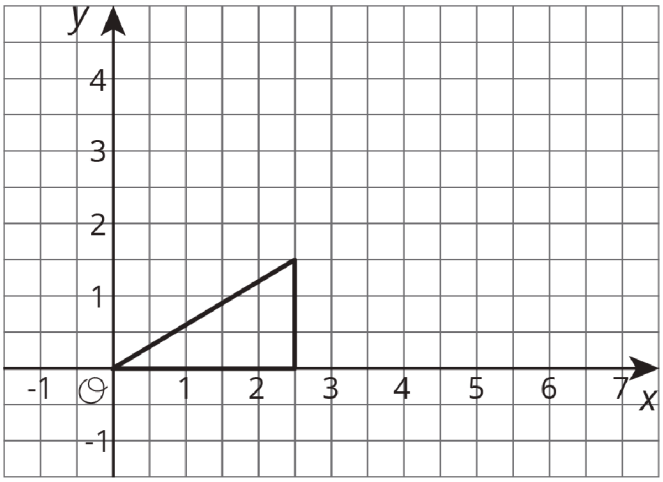
Card Sort: Matching Dilations on a Coordinate Plane

E

The circle with center $(0, 0)$ and radius 1.

Card Sort: Matching Dilations on a Coordinate Plane

5

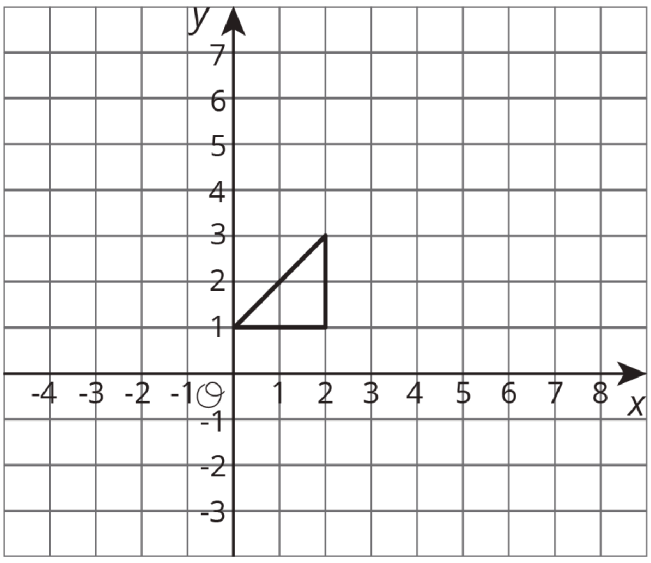


Dilate the triangle using center $(0, 0)$ and scale factor 2.

Card Sort: Matching Dilations on a Coordinate Plane

Card Sort: Matching Dilations on a Coordinate Plane

6



Dilate the triangle using center $(-4, -3)$ and scale factor 1.5.

Card Sort: Matching Dilations on a Coordinate Plane

D

The polygon with vertices at $(2, 3)$, $(5, 3)$, and $(5, 6)$.