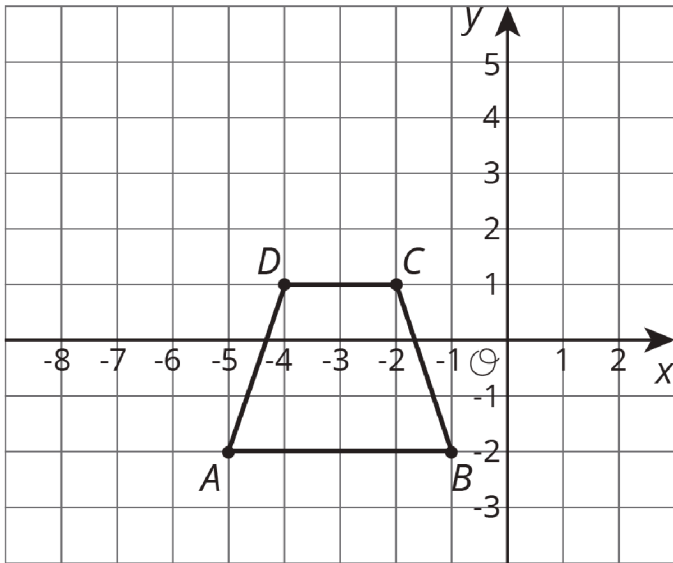


Card Sort: Matching Dilations on a Coordinate Plane

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:

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

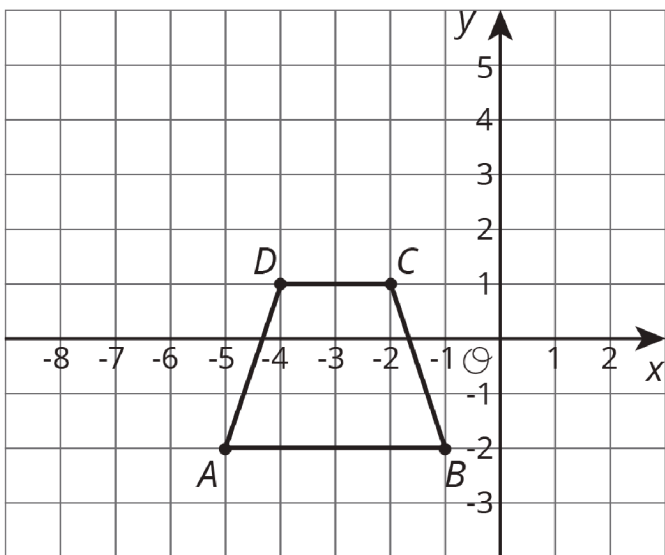
$$B' = (-1, -2)$$

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

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

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:

$$A' = (-4, 1)$$

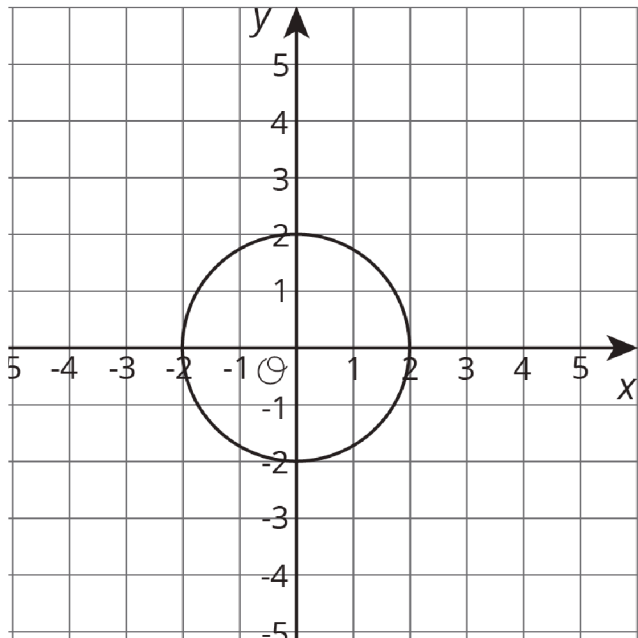
$$B' = (-2, 1)$$

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

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

Card Sort: Matching Dilations on a Coordinate Plane

3



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

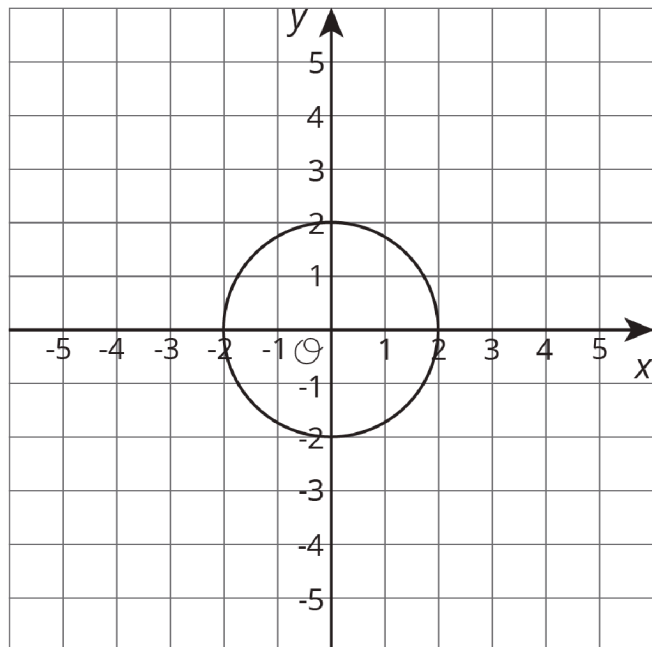
Card Sort: Matching Dilations on a Coordinate Plane

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  $\frac{1}{2}$ .

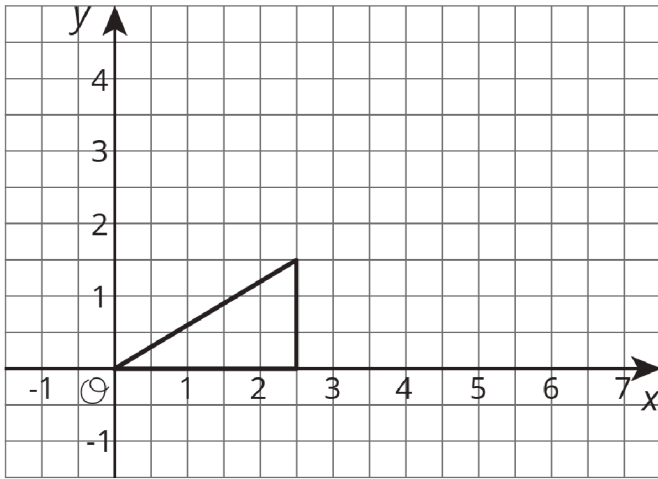
Card Sort: Matching Dilations on a Coordinate Plane

E

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

Card Sort: Matching Dilations on a Coordinate Plane

5

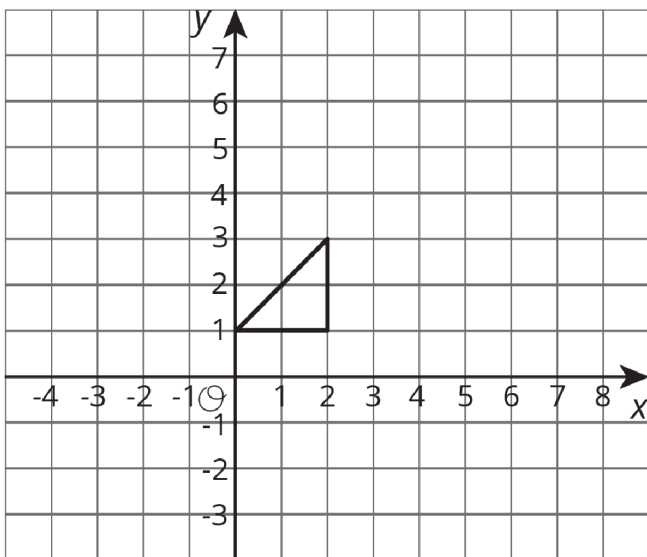


Dilate the triangle using center  $(0, 0)$  and scale factor 2.

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  $(5, 6)$ .