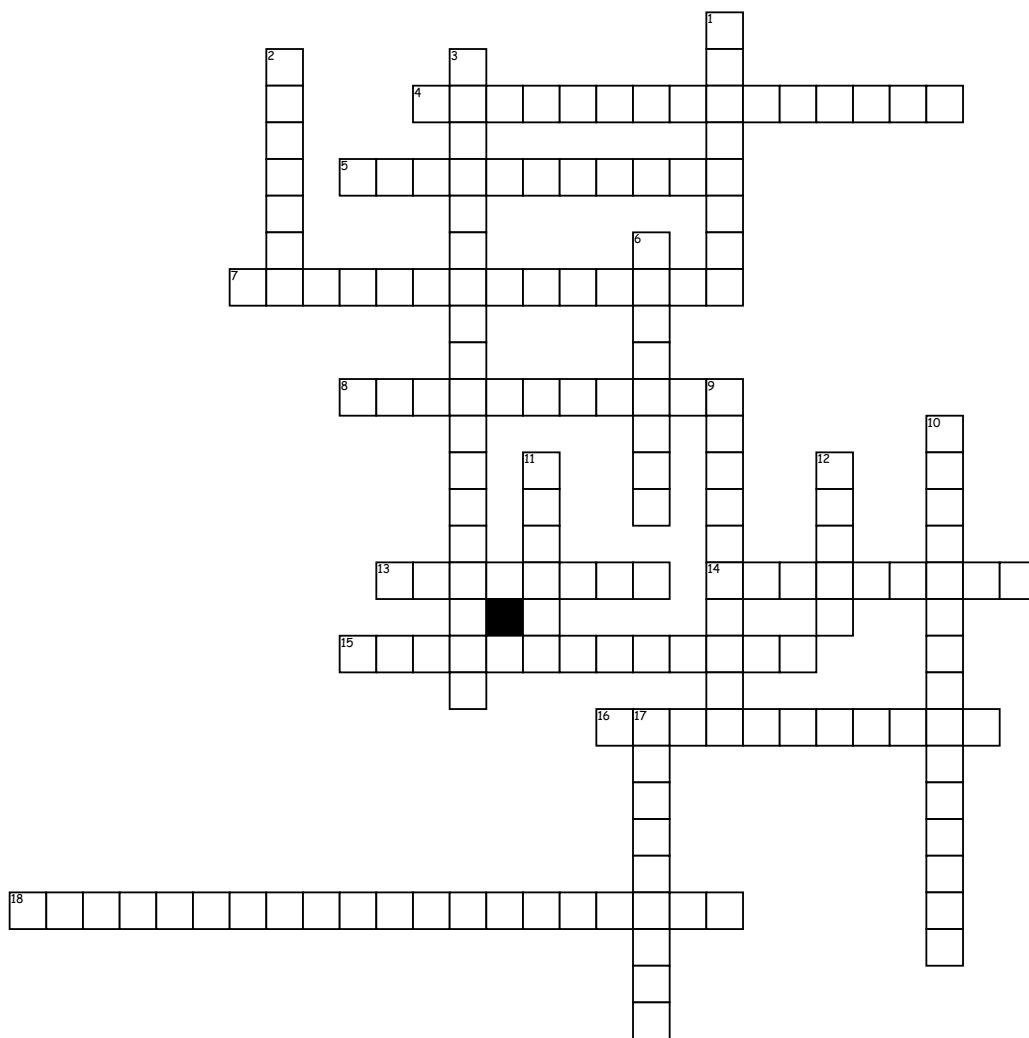


# MS Geometry Transformations



## Across

4. A plane that is divided into four regions by a horizontal line called the x-axis and a vertical line called the y-axis.
5. When the scale factor of a dilation is more than 1. corresponding
7. a function that changes the position or direction of a pre-image on the coordinate plane (reflection, rotation, translation, dilation)
8. The number you multiply the pre-image by to get the new image for a dilation.
13. The original figure in a transformation

14. Having the exact same size and shape

15. When two objects appear in the same place in two similar situations.

16. A transformation that "slides" each point of a figure the same distance in the same direction.

18. An imaginary line that runs through the center of a line or shape creating two perfectly identical halves.

## Down

1. A transformation in which a figure is turned around a point

2. Figures with the same shape but not necessarily the same size.

3. When a shape still looks the same after a rotation (of less than one full turn).

6. A transformation that changes the size of an object, but not the shape

9. A transformation that "flips" a figure over a mirror or reflection line.

10. The amount of rotation (in degrees) of a figure about a fixed point such as the origin.

11. the small hash mark that you put next to the point labels of the image (ie: A')

12. The result of a transformation. Notated with prime marks.

17. When the scale factor of a dilation is less than 1. enlargement

## Word Bank

rotation  
reduction  
transformation  
reflection  
enlargement

similar  
angle of rotation  
scale factor  
corresponding  
primes

translation  
axis or line of symmetry  
preimage  
congruent

rotational symmetry  
dilation  
image  
coordinate plane