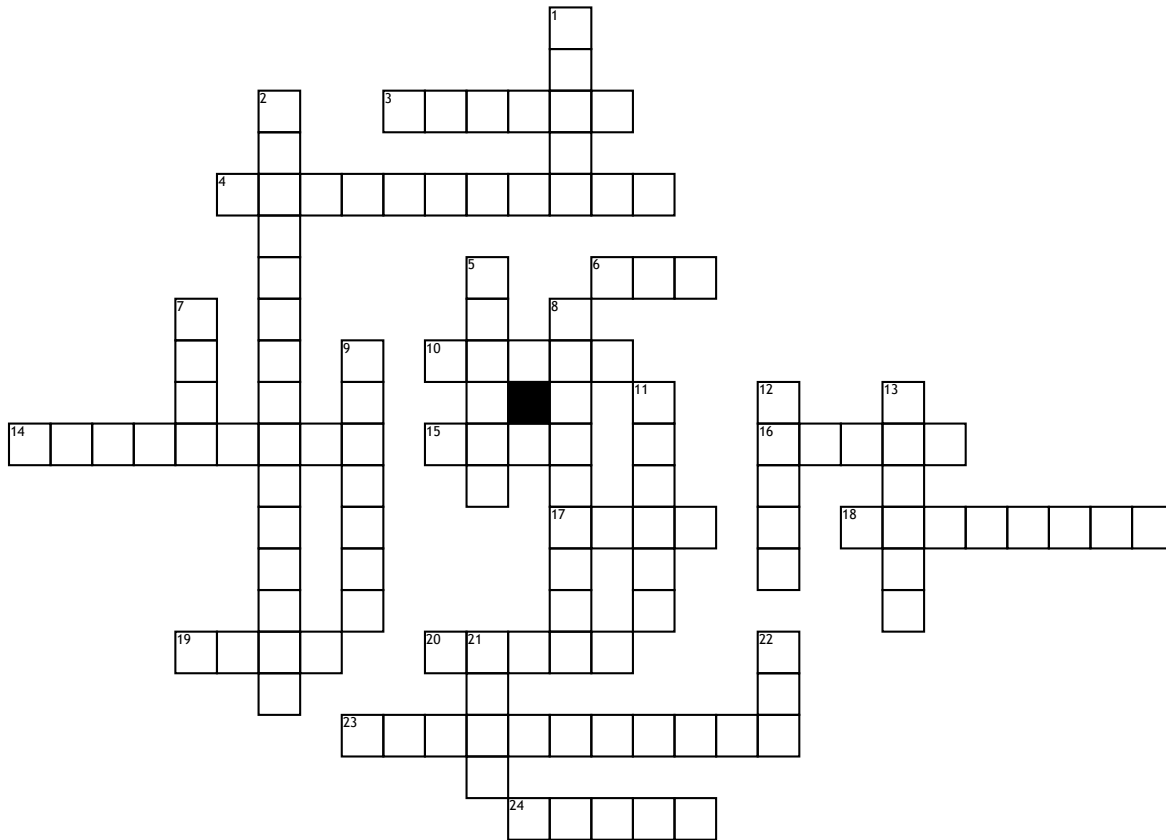


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Coordinate Geometry



## Across

3. x-intercept: the x:coordinate of a point where the line crosses the
4. A unique ordered pair of numbers (x,y) that identify where a point is in a plane.
6. Slope: a number that describes the steepness of a line; slope = rise/run, slope = vertical change (y)/ horizontal change
10. y-intercept: y-coordinate of a point where the line crosses the
14. Line of Reflection: a line over which a figure is
15. Reflection: a figure is flipped over a
16. y-coordinate: shows the location of a point along the
17. Solution: any value or values that make an equation or inequality
18. Quadrants: the four regions of the coordinate plane; the quadrants are numbered in a counterclockwise direction, starting in the upper right

## 19. y-axis: vertical number

20. Ordered Pair: a pair of numbers (x,y) that describe the location of a point in a coordinate
23. Slope:Intercept Form: an equation of  $y=mx+b$  where  $m$  = slope and  $b$  =
24. Origin: the intersection of the axes,  
**Down**
1. Rotation: transformation that turns a figure around a fixed
2. Formed by the intersection of a horizontal number line and a vertical number line which intersect at 0, dividing the plane into four quadrants.
5. x-coordinate: shows the location of a point in the coordinate plane along the
7. Linear Equation: the graph of all solutions to an equation lies on a

8. vector: a quantity that has magnitude and direction and that is commonly represented by a directed line segment whose length represents the magnitude and whose orientation in space represents the
9. Dilation: similarity transformation with a center and a scale factor,  $r$ ; if  $r > 1$ , the object is enlarged; if  $r < 1$ , the object is
11. Translation: sliding a
12. Transformation: change of position, shape, or size of a figure; dilations, translations, reflections, and rotations are
13. Image: a point, line, or figure that has been transformed to a new set of coordinates is the image of the original point, line, or
21. x-axis: horizontal number
22. Function: relationship in which each member of one set is paired with exactly one member of another