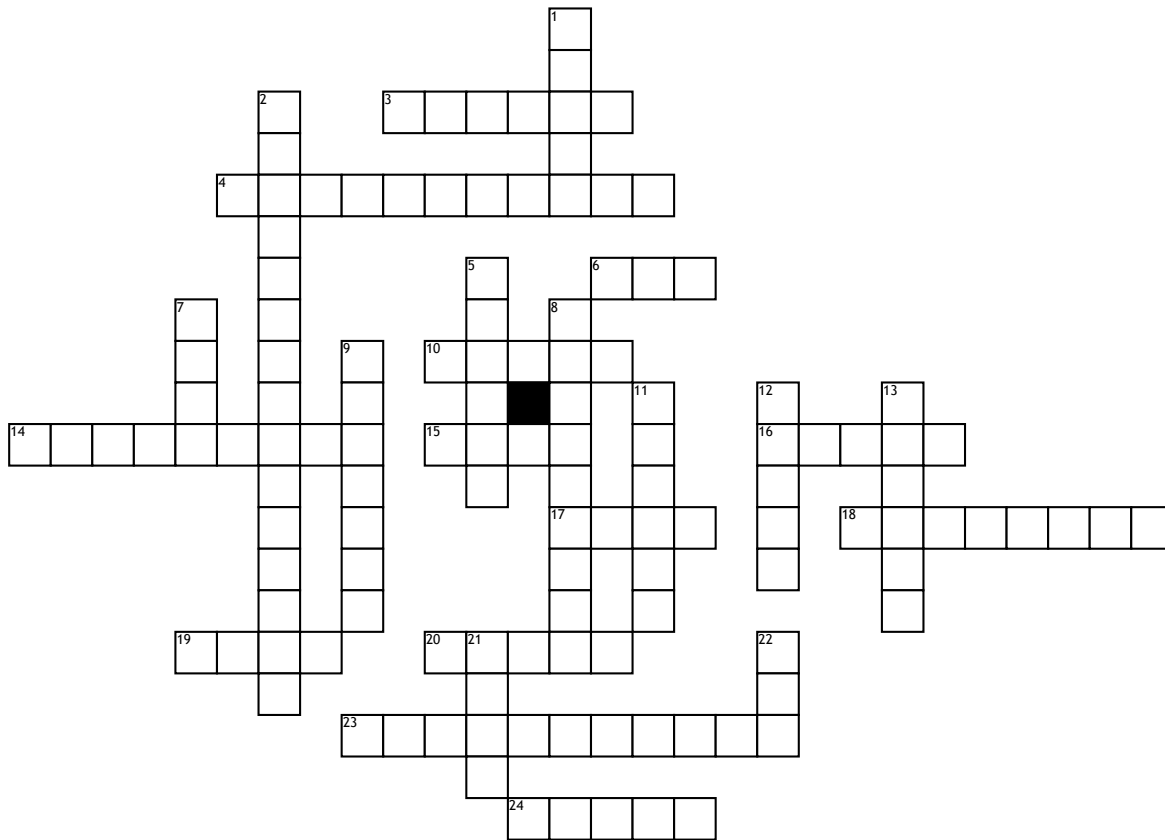


Coordinate Geometry



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 $m = \text{slope}$ 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