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Start date: _____


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Math 8 K&E

Graphing

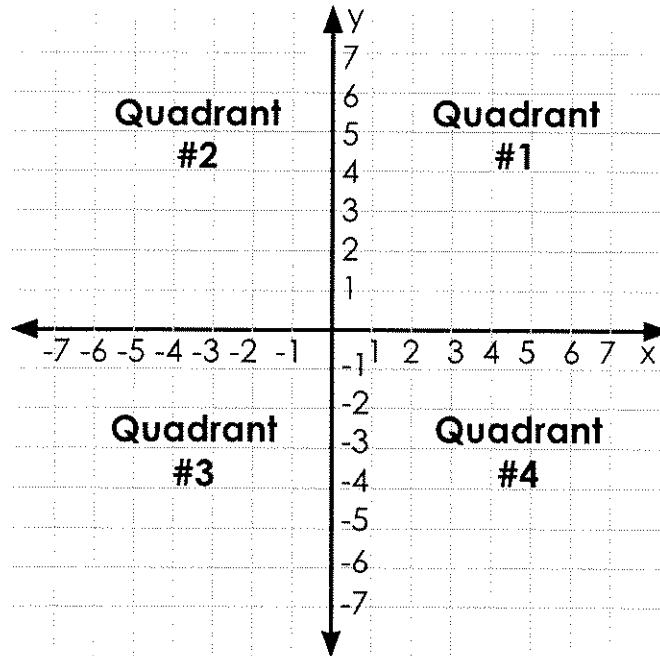
Graphing

Unit: Graphing	I Can	Do 
1. Recognize and label the quadrants on a grid	I can recognize the coordinate plane.	n/a
2. Identify and plot points in the first quadrant of a coordinate grid using ordered pairs	I can plot points on a grid.	Practice: pp. 141–142 Mathpower 8: pp. 159–160
3. Reproduce a given geometric drawing on grid paper	I can plot points to form a geometric figure.	Practice: pp. 145–147
4. Assessment		Unit Test pp. 149–151

NOTES:

I can... label the coordinate plane.

The following image is called the **coordinate plane**.



The coordinate plane is divided into four sections (Quadrant 1, Quadrant 2, Quadrant 3, and Quadrant 4).

Quadrant #1 is referred to as a grid.

NOTES:

I can... plot points on a grid.

The **horizontal number line** is called the x-axis. The **vertical number line** is called the y-axis. The two lines meet at a point called the origin.

The origin has the coordinates of (0, 0).

This is an ordered pair. The first number tells you to go right and the second number tells you to go up.

(2, 4)

x-coordinate

y-coordinate

Move 2 to the right

Move 4 up



Practice: Plotting Points

1 of 2

Describe which direction you need to move for each ordered pair.

Example: 1. (6,1) 6 right, 1 up

Example: 2. (2, 0) 2 right, 0 up

3. (5, 8)

4. (0, 1)

5. (8, 5)

6. (3, 7)

7. (0, 2)

8. (4, 0)

Plot the following points on the grid and label them (start at the origin).

1. A (2, 3)

2. B (4, 5)

3. C (0, 1)

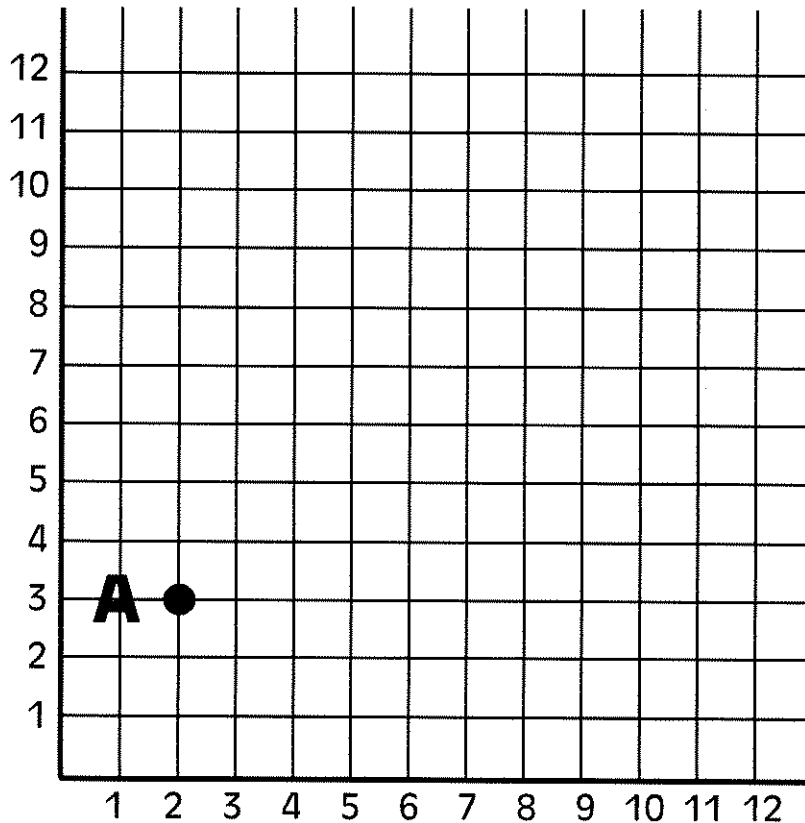
4. D (6, 0)

5. E (7, 4)

6. F (1, 2)

7. G (0, 6)

8. H (3, 0)





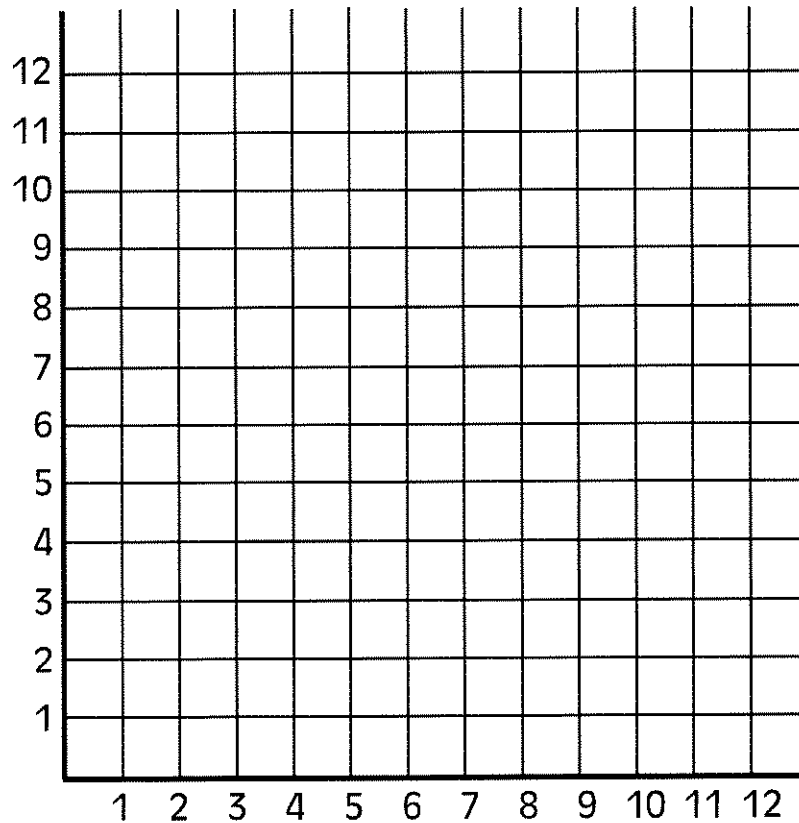
Name: _____ Date: _____

Practice: Plotting Points

2 of 2

Describe which direction you need to move for each ordered pair.

Plot the points A (1, 2), B (3, 2), C (3, 5) and D (1, 5)



1. Connect the points in order.
2. What shape is this? _____
3. Find the perimeter of the shape.

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Practice: Split Page Vocabulary

Directions:

Look up the definition for each term. Show that you understand what the term means by using an example or drawing a picture that describes the term.

Term	Definition	Example
Grid		
Coordinate Plane		
Origin		
Quadrants		
X-axis		
X-coordinate		
Y-axis		
Y-coordinate		

NOTES:

I can... plot points to form a geometric figure.

Connect-the-Dots Project

Create a connect-the-dots picture of a geometric shape by using a grid and ordered pairs.

Provide a neat copy of what your picture should look like when all of the dots have been connected properly on the grid, and a neatly printed copy of the ordered pairs you used.

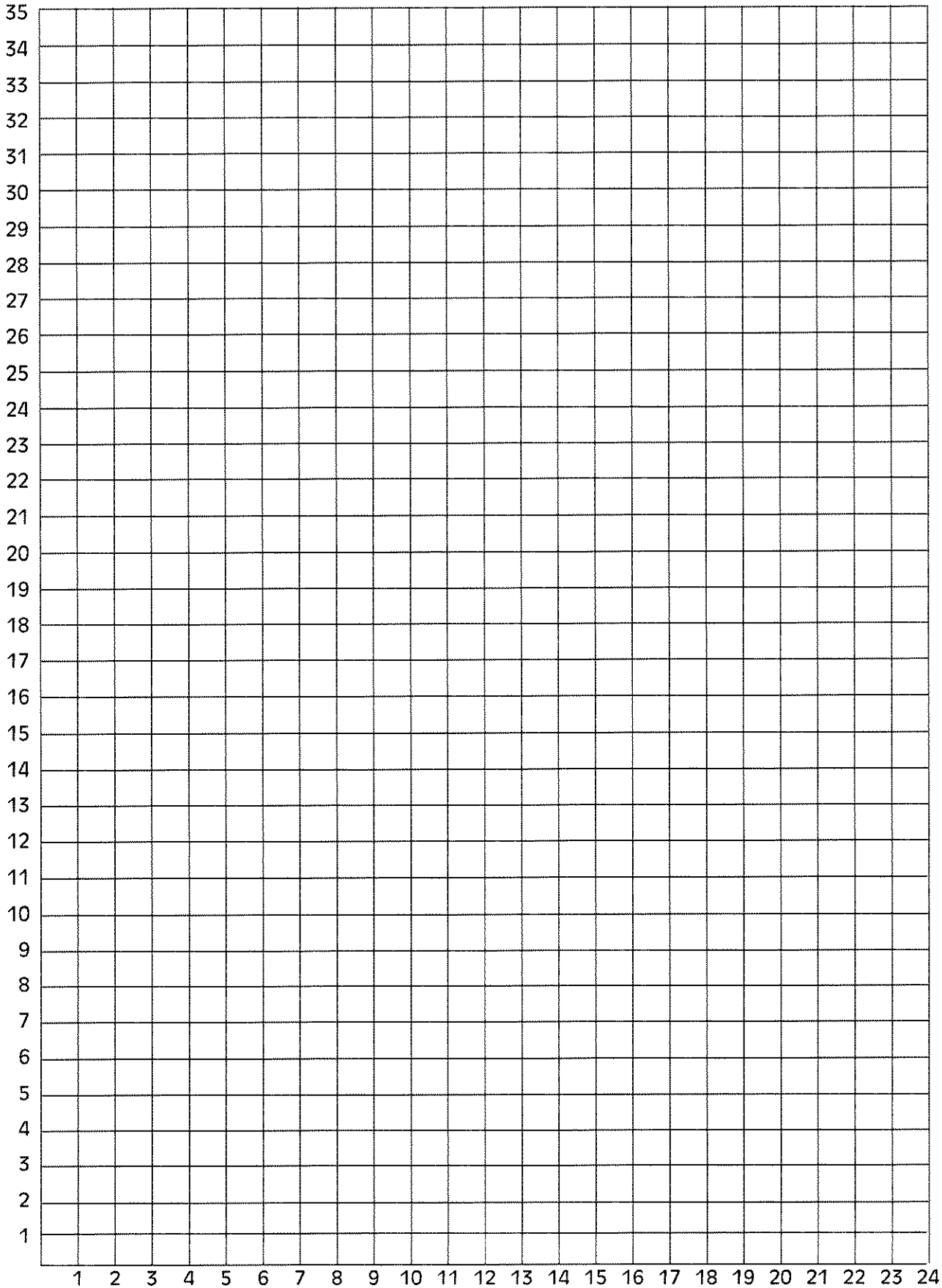
Projects will be evaluated based on the accuracy of the ordered pairs, the presentation of the picture (neat, detailed, reasonably large size), and the neatly printed copy.



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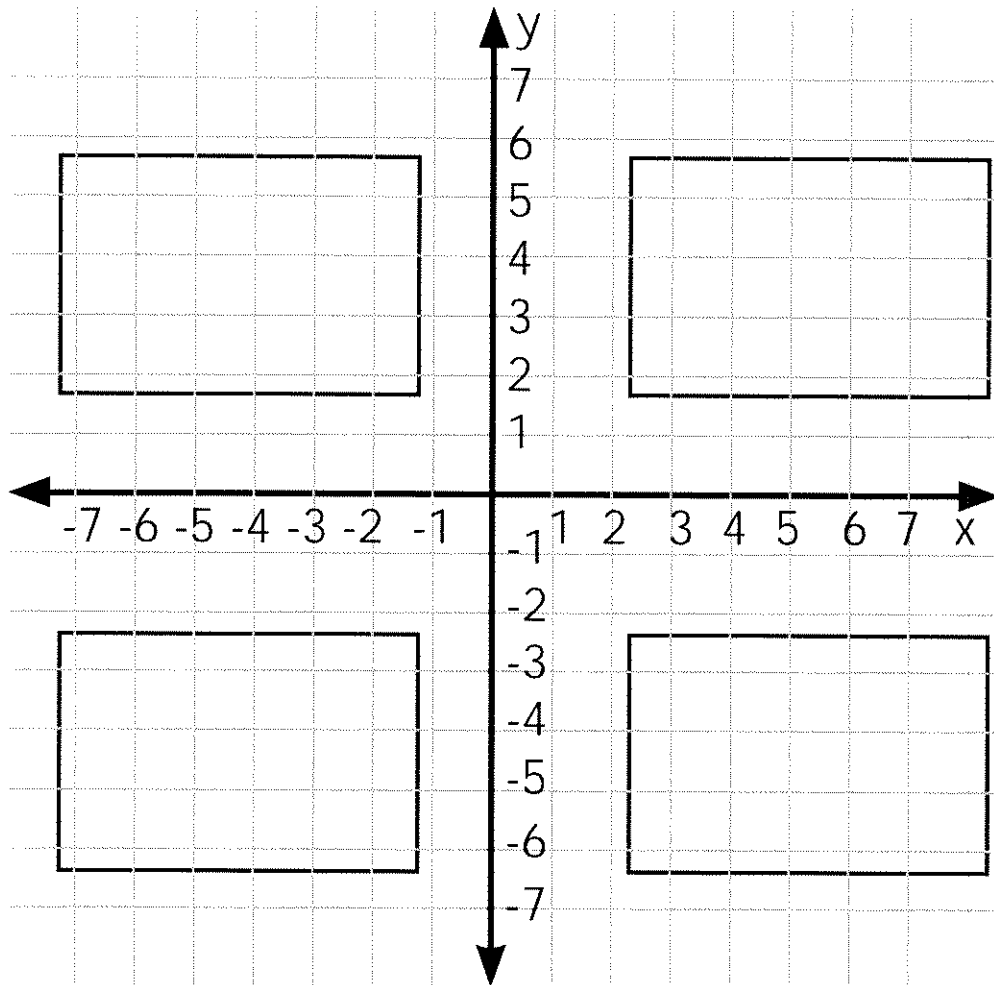
Practice: Connect-the-Dots Project

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Graphing – Unit Test

1. The coordinate plane has four quadrants. Label them.



2. Quadrant #1 is also called the _____.

3. Tell which quadrant each point is in.

a. $(5, 8) =$ _____

b. $(6, 7) =$ _____

c. $(2, 4) =$ _____

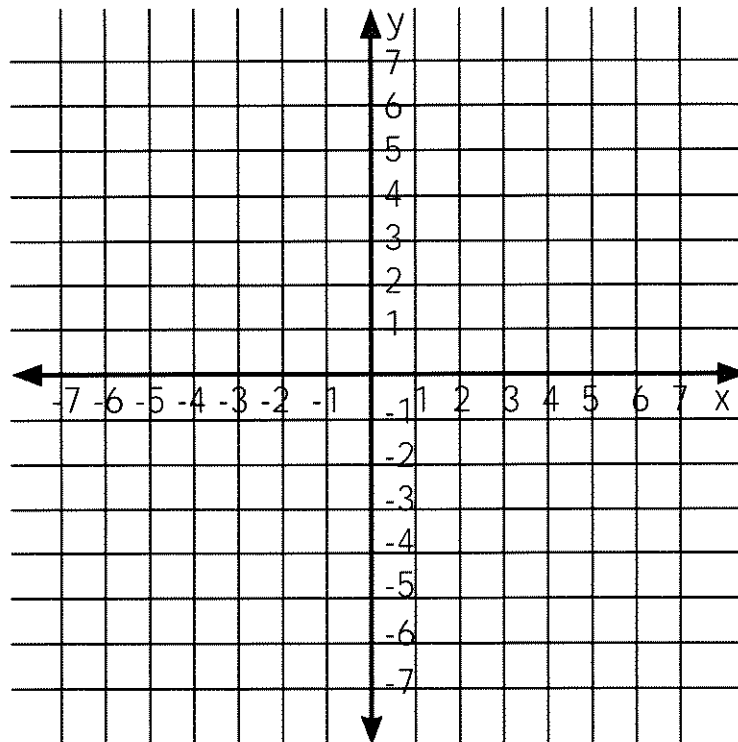
d. $(0, -3) =$ _____

e. $(-2, 0) =$ _____

4. For the following graph, plot the coordinates for each point and label.

a. $(4, 6)$ quadrant _____ b. $(3, 5)$ quadrant _____

c. $(7, 2)$ quadrant _____ d. $(1, 8)$ quadrant _____



5. Which set of coordinates fall in quadrant 1?

- a. (0, 4)
- b. (4, 5)
- c. (-2, 3)
- d. (-6, -6)

6. Which set of coordinates fall in quadrant 2?

- a. (0, 4)
- b. (4, 5)
- c. (-2, 3)
- d. (-6, -6)

7. Which set of coordinates fall on the y-axis?

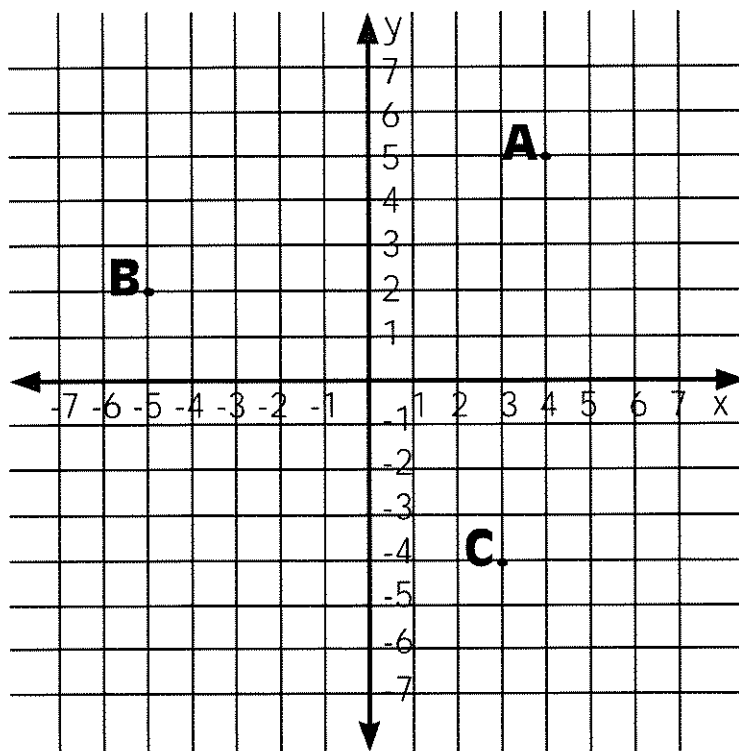
- a. (1, 1)
- b. (0, 0)
- c. (0, 5)
- d. (5, 0)

8. Which set of coordinates fall on the x-axis?

- a. (2, 2)
- b. (0, 0)
- c. (0, 3)
- d. (3, 0)

9. Find the coordinates of the following points:

- a. ()
- b. ()
- c. ()



10. What letter matches each ordered pair?

Example: $(6, 2) = X$

$(4, 0) = \underline{\hspace{2cm}}$

$(3, -5) = \underline{\hspace{2cm}}$

$(0, 1) = \underline{\hspace{2cm}}$

$(-1, 3) = \underline{\hspace{2cm}}$

$(2, -4) = \underline{\hspace{2cm}}$

$(-6, -3) = \underline{\hspace{2cm}}$

