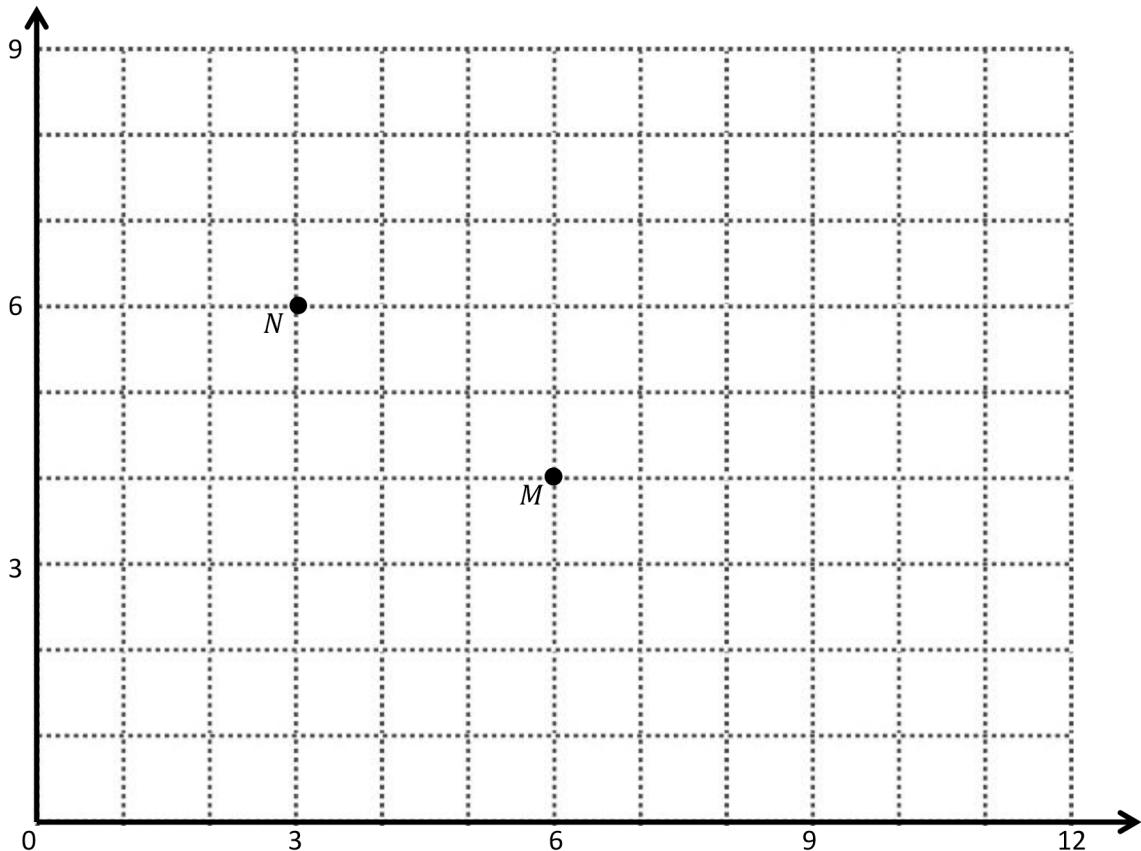


Name _____

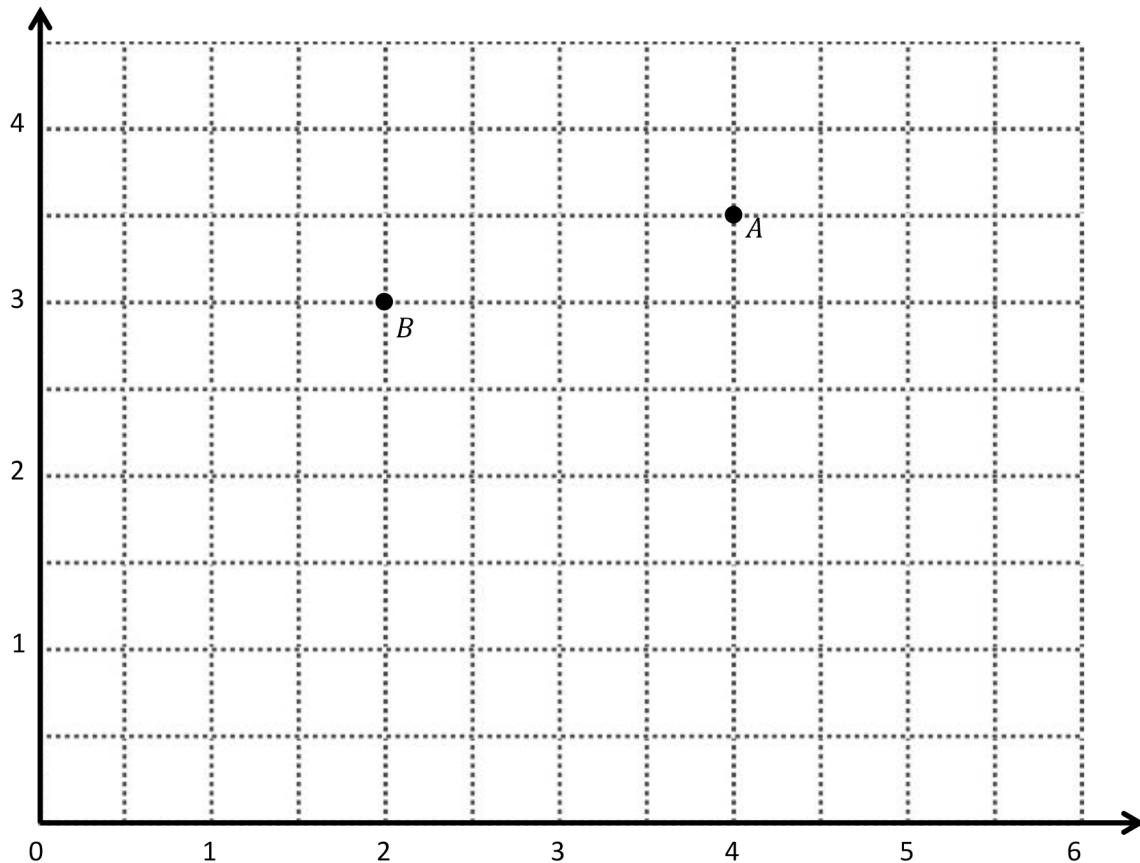
Date _____

1. Use the coordinate plane below to complete the following tasks.



- Identify the locations of M and N . $M: (\underline{\hspace{2cm}}, \underline{\hspace{2cm}})$ $N: (\underline{\hspace{2cm}}, \underline{\hspace{2cm}})$
- Draw \overleftrightarrow{MN} .
- Plot the following coordinate pairs on the plane.
 $J: (5, 7)$ $K: (8, 5)$
- Draw \overrightarrow{JK} .
- Circle the relationship between \overleftrightarrow{MN} and \overrightarrow{JK} .
 $\overleftrightarrow{MN} \perp \overrightarrow{JK}$ $\overleftrightarrow{MN} \parallel \overrightarrow{JK}$
- Give the coordinates of a pair of points, F and G , such that $\overrightarrow{FG} \parallel \overrightarrow{MN}$.
 $F: (\underline{\hspace{2cm}}, \underline{\hspace{2cm}})$ $G: (\underline{\hspace{2cm}}, \underline{\hspace{2cm}})$
- Draw \overleftrightarrow{FG} .

2. Use the coordinate plane below to complete the following tasks.



a. Identify the locations of A and B . $A: (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ $B: (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

b. Draw \overleftrightarrow{AB} .

c. Generate coordinate pairs for C and D , such that $\overrightarrow{AB} \parallel \overrightarrow{CD}$.

$C: (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ $D: (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

d. Draw \overleftrightarrow{CD} .

e. Explain the pattern you used when generating coordinate pairs for C and D .

f. Give the coordinates of a point, F , such that $\overrightarrow{AB} \parallel \overrightarrow{EF}$.

$E: (2\frac{1}{2}, 2\frac{1}{2})$ $F: (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

g. Explain how you chose the coordinates for F .

Answer Key

1. a. $(6, 4); (3, 6)$
b. Accurate \overleftrightarrow{MN} drawn
c. Accurate coordinate pairs plotted
d. Accurate \overleftrightarrow{JK} drawn
e. $\overleftrightarrow{MN} \parallel \overleftrightarrow{JK}$ circled
f. Answers will vary.
g. Accurate \overleftrightarrow{FG} drawn
2. a. $(4, 3\frac{1}{2}$ or $3.5); (2, 3)$
b. Accurate \overleftrightarrow{AB} drawn
c. Answers will vary.
d. Accurate \overleftrightarrow{CD} drawn
e. Explanations will vary.
f. Answers will vary.
g. Explanations will vary.