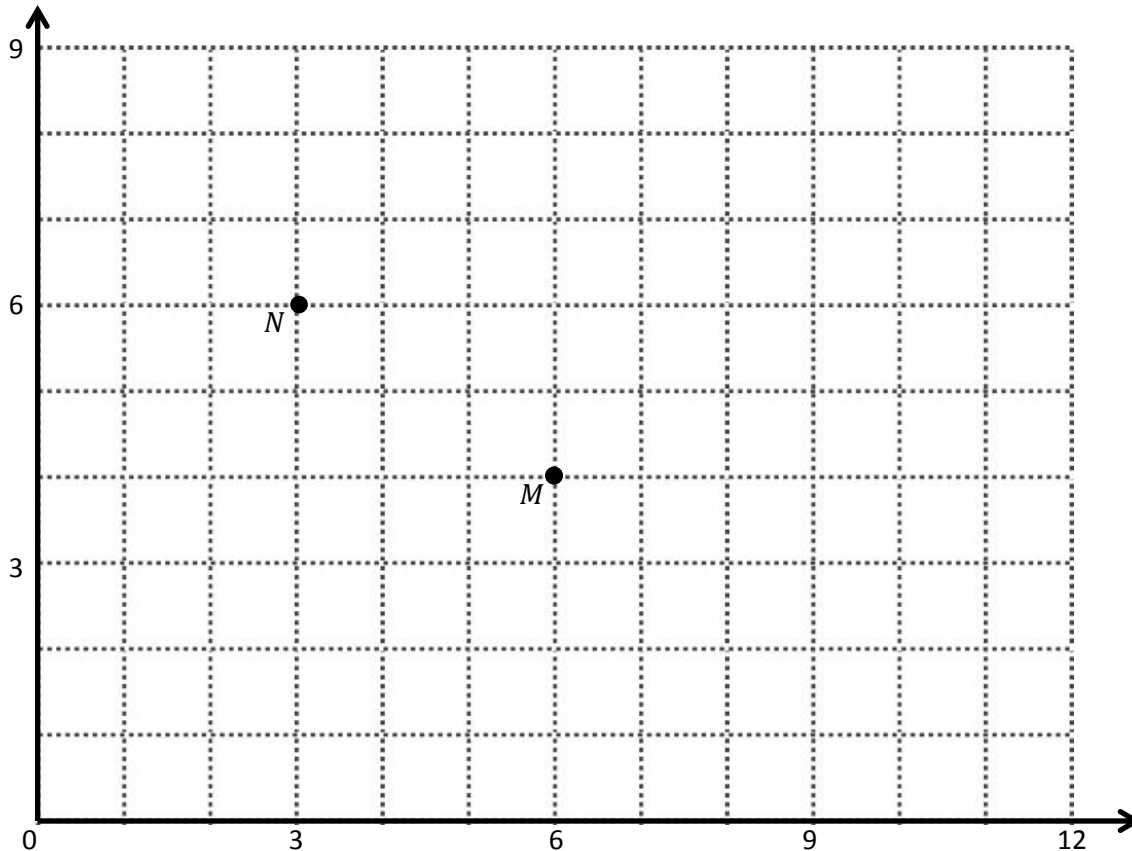


Name _____

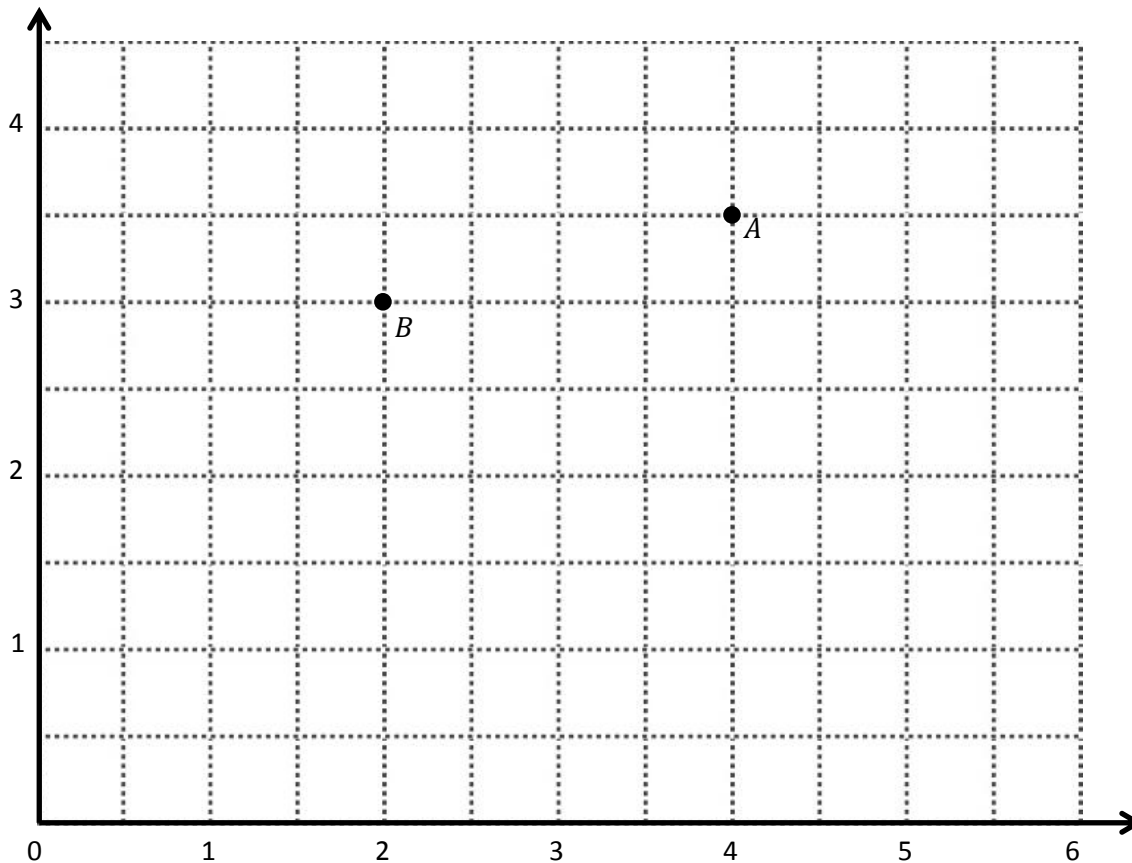
Date _____

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



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

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



- a. Identify the locations of A and B . A : (____, ____) B : (____, ____)

- b. Draw \overleftrightarrow{AB} .

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

C : (____, ____) D : (____, ____)

- 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 $\overleftrightarrow{AB} \parallel \overleftrightarrow{EF}$.

E : $(2\frac{1}{2}, 2\frac{1}{2})$ F : (____, ____)

- g. Explain how you chose the coordinates for F .

