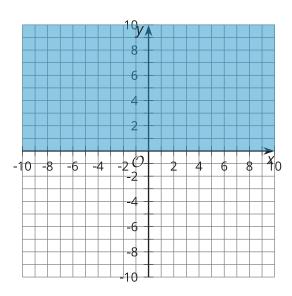
Unit 2 Lesson 21: From One- to Two-Variable Inequalities

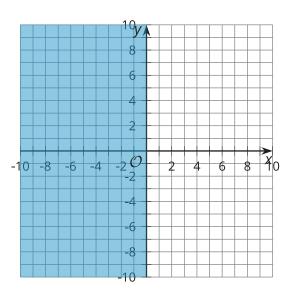
1 Describing Regions of the Plane (Warm up)

Student Task Statement

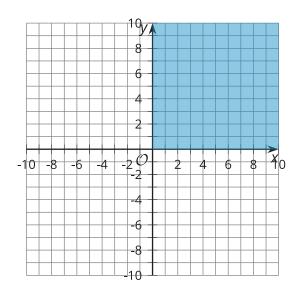
For each graph, what do all the ordered pairs in the shaded region have in common?

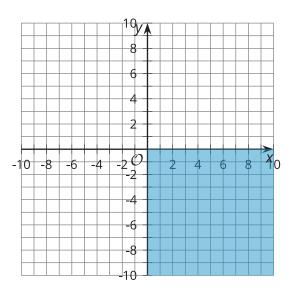
A B





C D





2 More or Less

Student Task Statement

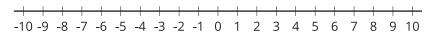
1. Write at least 3 values for x that make the inequality true.

a.
$$x < -2$$

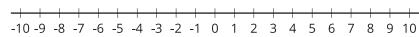
b.
$$x + 2 > 4$$

c.
$$2x - 1 \le 7$$

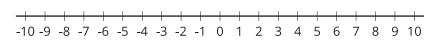
2. Graph the solution to each inequality on a number line.



a.

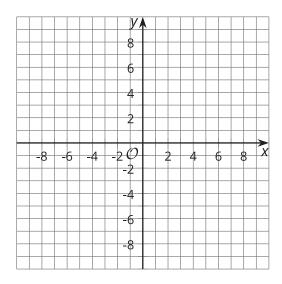


b.



c.

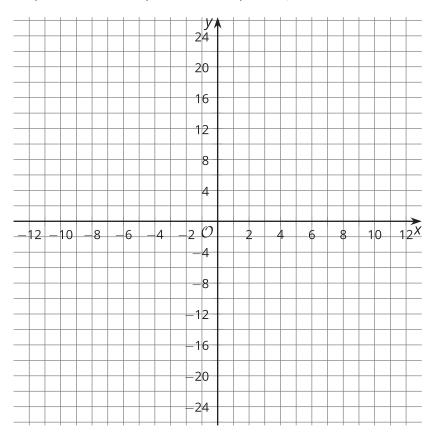
3. Using the inequality x < -2, write 3 coordinate pairs for which the x-coordinate makes the inequality true. Use the coordinate plane to plot your 3 points.



3 Above or Below the Line

Student Task Statement

1. Graph the line that represents the equation y = 3x - 4



- 2. Is the point (4, 8) on the line?
 - a. Explain how you know using the graph.
 - b. Explain how you know using the equation.

- 3. Use the 3 points (5, a), (-7, b) and (c, 20)
 - a. Write values for a, b, and c so that the points are on the line.
 - b. Write values for a, b, and c so that the points are above the line.
 - c. Write values for a, b, and c so that the points are below the line.