## 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


C


B


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. $2 x-1 \leq 7$
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 $y=3 x-4$

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.
