Warmup 10/(9 + 10) Created by Kimia

FOR EACH:

- A. What form is it in?
 B. What is the slope?
 C. What is the y-intercept?

1)
$$2x - 3y = 3$$

2)
$$y - 5 = \frac{1}{4} (x - 16)$$

3) $y = -\frac{3}{5}x$

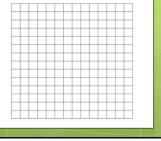
3)
$$y = -\frac{3}{5}x$$

1. Solve the inequality. Then graph the solution.

$$-5(x-6) \le 3x + 9 - x$$

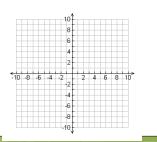
What does it mean when we graph?

$$y = 3x + 25$$



What does it mean when we graph?





• So far, we have solved & graphed inequalities with one variable, like the one in the warmup...

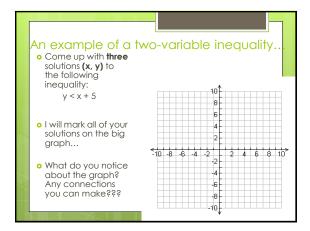


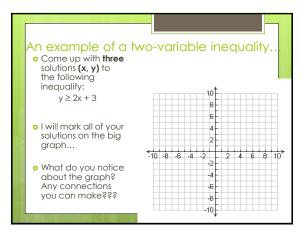
- o DISCUSS:
- 1. What does this graph represent?
- 2. What do you think the graph of a two variable inequality would look???

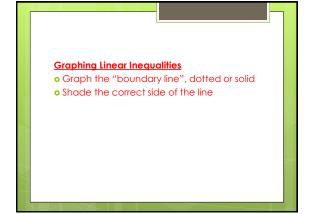
Solving Linear Inequalities Objective:

• Use graphing to solve linear inequalities in two variables

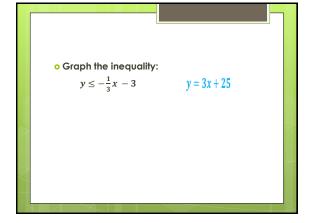
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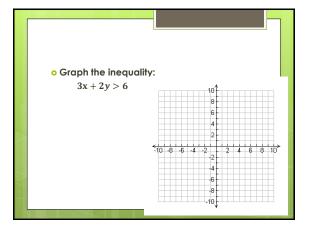


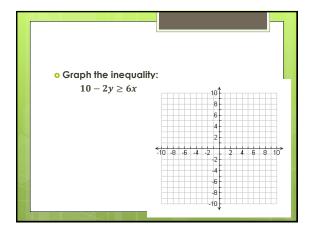


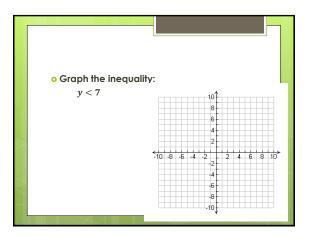


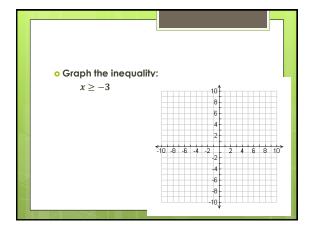


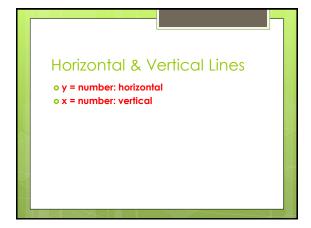


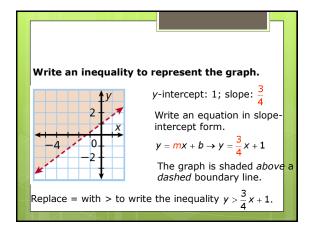


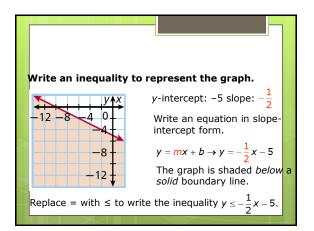












Ada has at most 285 beads to make jewelry. A necklace requires 40 beads, and a bracelet requires 15 beads.

Write a linear inequality to describe the situation.

Let x represent the number of necklaces and y the number of bracelets.

Write an inequality. Use ≤ for "at most."

