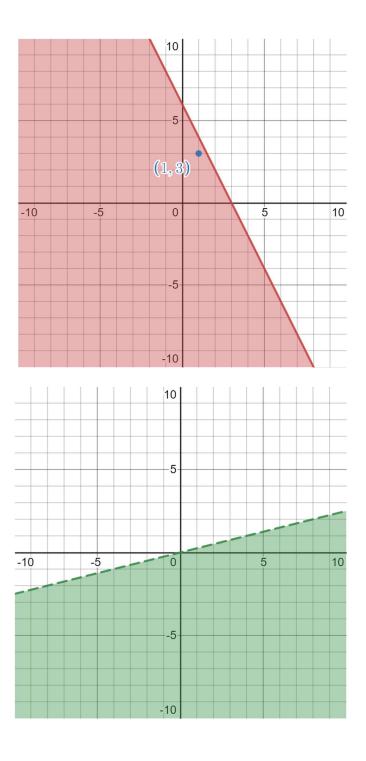
Name:	:		Date:	
	Learning Goal 9.1	Solving linear inequalities.		

1. Graph  $4x + 2y \le 12$  and determine whether (1, 3) is part of the solution.

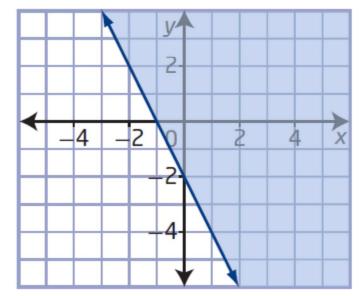


2. Graph 5x - 20y > 0.

## Chapter 9

3. Write and inequality to represent the graph.

$$y \ge -2x - 2$$
$$y - 2 \ge -2(x + 2)$$
$$2x + y \ge -2$$



4. Find all possible combinations of tile and stone that can be used to make a mosaic. Tile costs  $\frac{2.50}{ft^2}$ , stone costs  $\frac{6}{kg}$  and the budget for the mosaic is \$150.

Let t = the number of square feet of tile purchased and

let s = the number of kilograms of stone purchased

$$\frac{5}{2}t + 6s \le 150$$

