## Lesson 3.3 Warm Up (Marker Boards)

1. Graph $y>3 x-2$
2. Give an example of data that has a strong positive correlation.

## Lesson 3.3 Systems of Inequalities

Essential Understanding: You can solve a system of inequalities in more than one way. Graphing the solution is usually the most appropriate method. The solution is the set of all points that solutions of each inequality in the system.

Ex. Solve: $x+y>4$
$3 x+7 y \leq 21$


Ex. Solve: $2 x-y \geq-3$


Ex. Your city's cultural center is sponsoring a concert to raise at least $\$ 30,000$ for the city's Youth Services.
Tickets are $\$ 20$ for balcony seats and $\$ 30$ for orchestra seats. If the center has 500 orchestra seats, how many of each type of seat must they sel


Ex. What is the solution of the system:
$y \geq|x-1|$


Ex. What is the solution of the system of inequalities:
$y<-1 / 3 x+2$
$y>2|x-2|$


