Warmup:



Charles is saving \$5 each week. He earns an extra \$15 by mowing his neighbor's lawn. How many weeks will he need to save in order to have at least \$75?

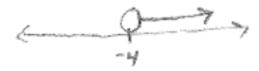
Let $x = \# \circ f$ weeks

a) Write an inequality to represent the situation. Be sure to define your variable.

b) Solve the inequality and answer the question.

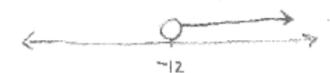
Solve the inequality and graph its solution.

$$\frac{x}{2} - 4 > -6$$
 $\frac{x}{2} > -2$



Solve the inequality and graph its solution.

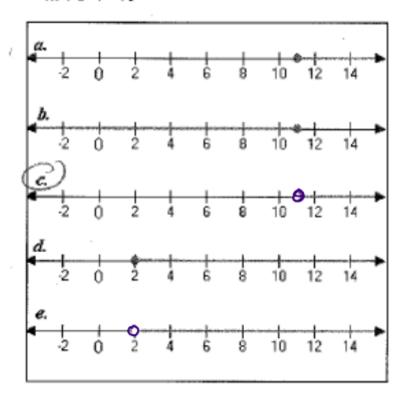
$$-2 < 6 + \frac{2}{3}g$$
 $\frac{-8}{(\frac{8}{3})}$



3)

Solve the inequality. Then match its solution with one of the graphs shown.

$$-4x+3 < -41$$



- Elisa won 40 lollipops playing basketball at the school fair. She gave two to every student in her math class. She has at least 7 follipops left.
 - a) Write an inequality to represent the situation. Be sure to define your variable.
 - b) Solve the inequality to find the maximum number of students in her class.

maximum of 16 students in her class.

- 5) More than 450 students went on a field trip. Ten buses were filled and 5 more students traveled in a car.
 - a) Write an inequality to represent the situation. Be sure to define your variable.
 - b) Solve the inequality to find the minimum number of people on each bus.

let n = # of students per bus
a) 10n+57450

10n 7 445 10 7 445 10 10 N 9 44.5 Minimum of (45) Deople per but

n = 100

- Bill spent less than \$26 on a magazine and five composition books. The magazine cost \$4.
 - a) Write an inequality to represent the situation. Be sure to define your variable.
 - Solve the inequality to find the maximum cost of each composition book.

a) let c= # per composition book b) 5c+426 5c+4 4 26

5c 4 22

- 7) Amanda rented a bike from Shawna's Bikes. They charged her \$2 per hour, plus a \$10 fee. Amanda paid less than \$27.
 - a) Write an inequality to represent the situation. Be sure to define your variable.
 - b) Solve the inequality to find the maximum number of hours Amanda rented the bike.



Practice with Equations, Inequalities and Word Problems

Quiz #4