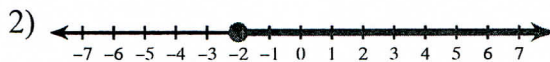
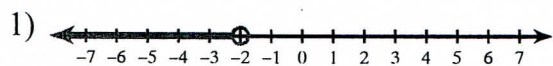


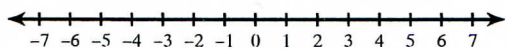
2.1-2.5 Review #2

Write an inequality for each graph.

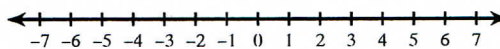


Draw a graph for each inequality.

3) $k \geq 0$

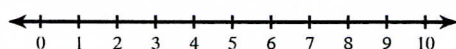


4) $a < -1$

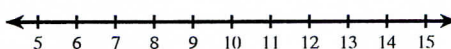


Solve each inequality and graph its solution.

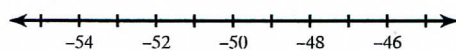
5) $-9 \geq m - 11$



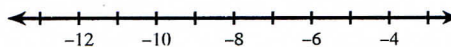
6) $m - 16 > -3$



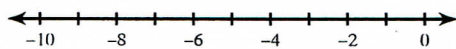
7) $-5 > \frac{x}{10}$



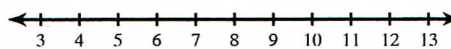
8) $-6n > 42$



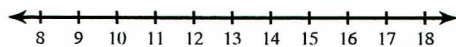
9) $-2 \leq -1 + \frac{x}{8}$



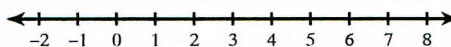
10) $6 > 1 + \frac{p}{2}$



11) $13 - 6k \leq -(6k - 6)$



12) $-8(x + 4) \leq -6x - 38$



Define a variable and write an inequality for each situation.

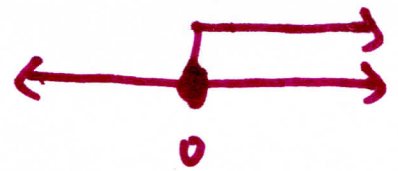
13) There are no less than 75 chips in a bag.

14) Jessica can drive no more than 65 miles per hour on the highway. She is already going 49 miles per hour. Write an inequality to show how many more miles per hour she can drive.

$$1) x < -2$$

$$2) x \geq -2$$

$$3)$$



$$5) -9 \geq m - 11$$

$$6) m - 16 > -3$$

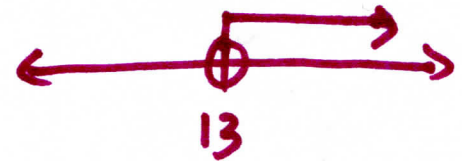
$$-9 - m \geq -11$$

$$\begin{array}{r} +16 \quad +16 \\ \hline \end{array}$$

$$\begin{array}{r} +9 \quad \quad +9 \\ \hline \end{array}$$

$$m > 13$$

$$-m \geq -2$$



$$m \leq 2$$



$$7) \frac{-5}{1} > \frac{x}{10}$$

$$8) \frac{-6n}{-6} > \frac{42}{-6}$$

$$-50 > x$$

$$n < -7$$

$$x < -50$$



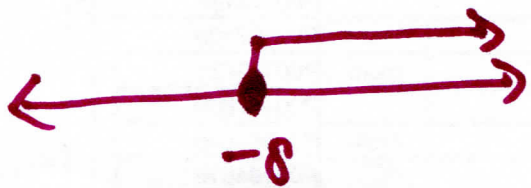
$$9) -2 \leq -1 + \frac{x}{8}$$

$$\frac{x}{8} - 1 \geq -2$$

+1 +1

$$\frac{x}{8} \geq -1$$

$$x \geq -8$$

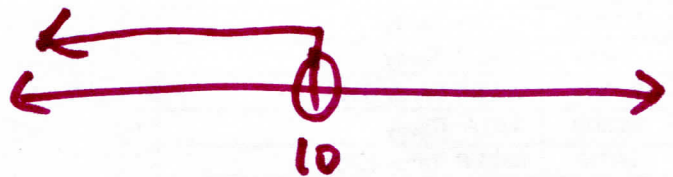


$$10) 6 > 1 + \frac{p}{2}$$

$$\frac{5 > \frac{p}{2}}$$

$$10 > p$$

$$p < 10$$



$$11) 13 - 6k \leq -(6k - 6)$$

$$13 - 6k \leq -6k + 6$$

$$\cancel{+6k} \quad \cancel{-6k}$$

$$13 \leq 6$$

No Solution



$$12) -8(x+4) \leq -6x - 38$$

$$-8x - 32 \leq -6x - 38$$

$$+6x \quad +6x$$

$$-2x - 32 \leq -38$$

$$+32 \quad +32$$

$$\frac{-2x}{-2} \leq \frac{-6}{-2}$$

$$x \geq 3$$

$$13) x \geq 75$$

$$14) x + 49 \leq 65$$

$$x \leq 16$$

Jessica can
drive no more
than 16 m/h.