If you were to solve the following, would you flip the inequality? Circle the correct response.

1. 
$$x + 5 > -1$$

YES the inequality flips!

or

NO the inequality would NOT flip!

$$2. \quad 6 \le -2y$$

YES the inequality flips!

NO the inequality would NOT flip!

3. 
$$-\frac{h}{4} < -7$$

YES the inequality flips!

NO the inequality would NOT flip!

4. 
$$-5 > y - 1$$

YES the inequality flips!

or

NO the inequality would NOT flip! NO the inequality would NOT flip!

5. 
$$5t \le -20$$

YES the inequality flips!

or

6. 
$$6 < -\frac{1}{2}n$$

YES the inequality flips!

or

NO the inequality would NOT flip!

## Solve the following inequalities.

7. 
$$4x + 7 > -1$$
  
 $-\frac{1}{2} > -\frac{1}{2}$   
 $4x > -\frac{8}{4}$ 

9. 
$$-\frac{h}{3} + 5 + 7$$
  
 $-\frac{5}{3} - \frac{5}{4} + \frac{5}{3} = \frac{7}{3}$   
 $-\frac{5}{4} - \frac{5}{3} = \frac{7}{3}$ 

10. 
$$x+5 > -2$$

$$-5 \mid -5$$

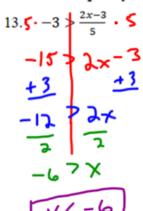
$$\boxed{\times > -7}$$

11. 
$$\frac{-12 + 3g}{-3 - 3}$$

$$\boxed{4 - 9}$$

12. 
$$5 - \frac{2}{3}t + 9$$
 $-\frac{5}{3}t + 4 (-3)$ 
 $\frac{3}{4} > -\frac{12}{3}$ 
 $\frac{1}{4} > -\frac{12}{3}$ 

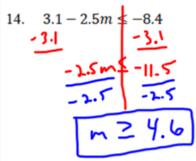
Solve the inequality and graph the solution set on the number line. Determine if the point is in the solution set.

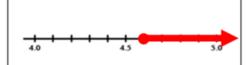




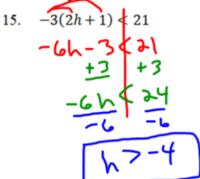
Is x = 5 in the solution set?







Is m = 4.8 in the solution set?





Is h = 0 in the solution set?

16. 
$$12 \le 4 + 2 - 3n$$

$$13 \le 6 - 3n$$

$$-6 - 6$$

$$-6 - 3n$$

$$-3 - 3$$

$$-3 \ge n$$

$$-3 \ge n$$



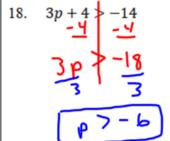
Is n = -4 in the solution set?

$$\begin{array}{c|c}
17. & 30 & -10x \\
\hline
-10 & -10
\end{array}$$

$$-3 & \times \\
\times & \times & -3$$



Is x = 5 in the solution set?





Is p = 0 in the solution set?