

**REVIEW**

Graph the inequalities on the number line.

1.  $x > -2$



2.  $g \leq 3$



3.  $4 < t$       $t > 4$



Write an inequality to represent the solution set.

4.  $x < -5$



5.  $x \geq 6$



6.  $x \leq 4$

 $x$  is a number no greater than 4

Select all of the following that are solutions to the inequality.

7.  $x > -2$

(A)  $x = 4$

(B)  $x = -4$

(C)  $x = 2$

(D)  $x = -2$

(E)  $x = 0$

Graph the inequalities on the number line.

8.  $4 - 3x > 19$

$$\begin{array}{r} -4 \\ -3x > 15 \\ \underline{-3} \quad \underline{-3} \\ x < -5 \end{array}$$



9.  $\frac{g}{3} - 5 \leq -7$

$$\begin{array}{r} +5 \\ \frac{g}{3} - 5 \leq -7 \\ \underline{+5} \quad \underline{+5} \\ \frac{g}{3} \leq -2 \cdot 3 \\ g \leq -6 \end{array}$$



10.  $14 < 2(3x - 5)$

$$\begin{array}{r} 14 < 6x - 10 \\ +10 \quad +10 \\ \underline{+10} \quad \underline{+10} \\ 24 < 6x \\ \frac{24}{6} < \frac{6x}{6} \\ 4 < x \\ x > 4 \end{array}$$



Write an inequality to model the following. State what your variable represents.

11. There are at least 9 Star War movies.

Inequality  $m \geq 9$

Variable

 $m = \#$  of Star Wars movies

12. Bob has 30 lightsabers. He gets 4 lightsabers every week. He plans to collect lightsabers until he has more than 180 lightsabers. How long will he collect lightsabers.

Inequality

$30 + 4w > 180$

Variable

 $w = \#$  of weeks