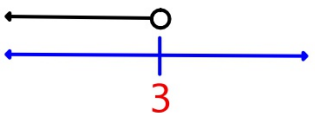
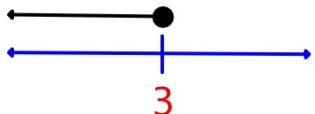
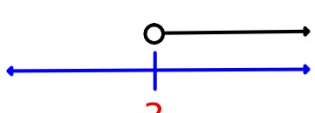
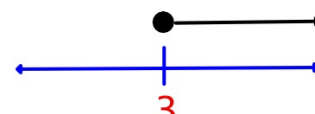


Solving and Graphing Inequalities

$<$	less than $x < 3$	
\leq	less than or equal to $x \leq 3$	
$>$	greater than $x > 3$	
\geq	greater than or equal to $x \geq 3$	

If you multiply or divide by a negative number you must remember to flip the inequality!!!

1. $-2x \geq 10$

2. $-\frac{x}{2} \leq 7$



Do NOT Flip!

3. $\frac{2}{3}x \geq -6$

4. $5x > -10$



5. $3x - 4 > 11$

6. $2x + 5 \leq 8x - 7$

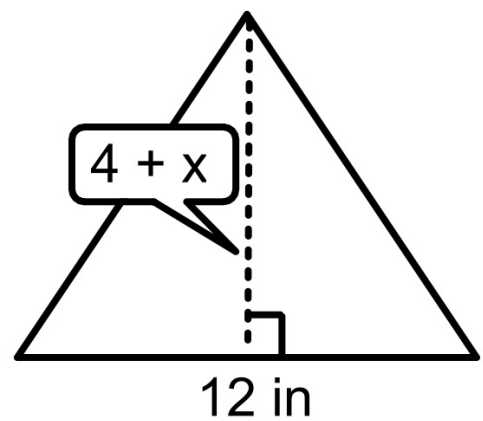


$$7. 3n-18 \geq 5n+21$$



$<$	$>$	\leq	\geq
less than	greater than	at most	at least
fewer than	more than	no more than	no less than
		less than or equal to	greater than or equal to

The length of the base of the triangle shown is less than the height of the triangle. What are the possible values of x ?



Caleb is going to the state fair and can spend at most \$40. It cost him \$10 to enter the fair grounds and \$2 to ride each ride.

1) Write an inequality

2) Solve the inequality to show how many rides he can ride.