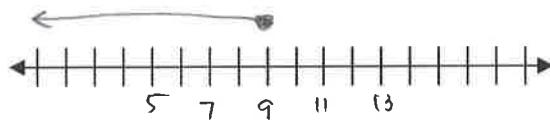


3-3 Solve Inequalities Using \times or \div

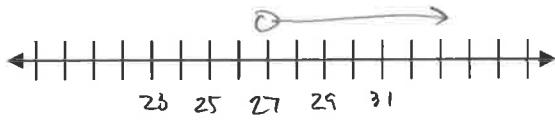
Solve each inequality and graph the solutions.

1. $\frac{3}{5}t \leq 15 \cdot \frac{3}{5}$
 $t \leq 9$



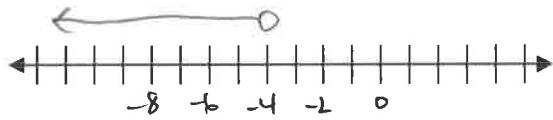
$$\frac{15}{1} \cdot \frac{3}{5} = \frac{9}{1}$$

2. $\frac{g}{3} - 2 > 7$
 $+2 +2$
 $\frac{g}{3} > 9$
 $\cdot 3 \cdot 3$
 $g > 27$

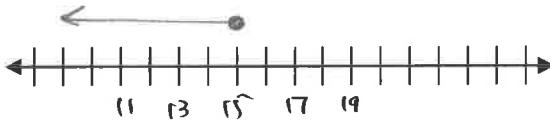


Graph each inequality.

3. $6 < -3(x + 2)$
 $6 < -3x - 6$
 $12 < -3x$
 $-4 > x$ so $x < -4$



4. $-5 \leq \frac{x}{-3}$
 $15 \geq x$ so $x \leq 15$



Identify a variable, write an inequality to represent this situation, and solve it.

5. To remain on the football team, Steven must attend at least
- $\frac{3}{4}$
- of the study hall sessions offered. He attends 12 sessions. If Steven barely met the requirements, what is the maximum number of study hall sessions there could have been? (Let
- $x = \#$
- study hall sessions)

$12 \geq \frac{3}{4}x$

$\frac{4}{3}(12) \geq x$

$16 \geq x$

$\text{so } x \leq 16$

There could have been at most 16 study hall sessions.