

Solving One Step Linear Inequalities

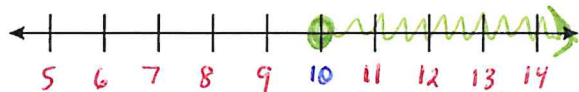
Unit 2: Equations and Inequalities

Solve each equation:

1. $-10 \leq r + (-20)$

$$\begin{array}{r} +20 \quad +20 \\ \hline \end{array}$$

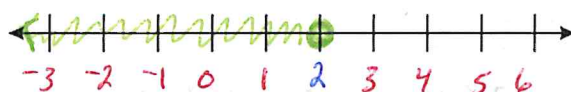
$$10 \leq r \quad \text{OR} \quad r \geq 10$$



2. $14 \geq x + 12$

$$\begin{array}{r} -12 \quad -12 \\ \hline \end{array}$$

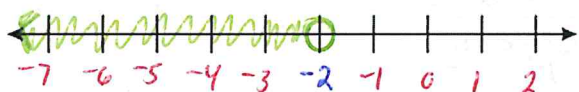
$$2 \geq x \quad \text{OR} \quad x \leq 2$$



3. $-18 > x - 16$

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

$$-2 > x \quad \text{OR} \quad x < -2$$



4. $15 \geq n + 16$

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

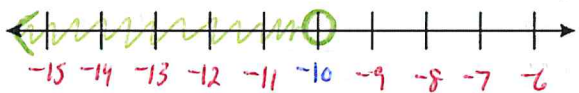
$$-1 \geq n \quad \text{OR} \quad n \leq -1$$



5. $-12 > n - 2$

$$\begin{array}{r} +2 \quad +2 \\ \hline \end{array}$$

$$-10 > n \quad \text{OR} \quad n < -10$$



6. $x - 5 \leq -20$

$$\begin{array}{r} +5 \quad +5 \\ \hline \end{array}$$

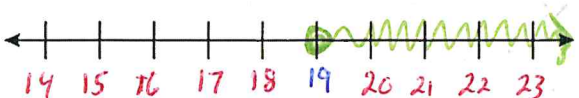
$$x \leq -15$$



7. $-26 \geq -7 - x$

$$\begin{array}{r} +7 \quad +7 \\ \hline \end{array}$$

$$\frac{-19 \geq -x}{-1 \quad -1} \quad 19 \leq x \quad \text{OR} \quad x \geq 19$$



8. $b + 16 \leq 35$

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

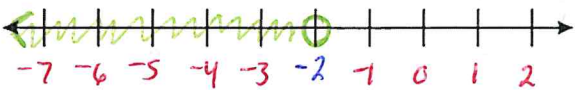
$$b \leq 19$$



9. $-12 + n < -14$

$$\begin{array}{r} +12 \quad +12 \\ \hline \end{array}$$

$$n < -2$$



10. $5 + r < 11$

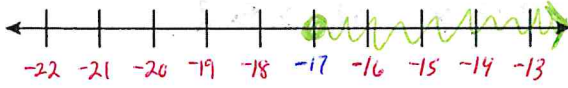
$$\begin{array}{r} -5 \quad -5 \\ \hline \end{array}$$

$$r < 6$$



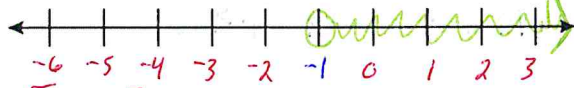
$$11. \frac{272}{-16} \geq \frac{-16k}{-16}$$

$$-17 \leq k \quad \text{OR} \quad k \geq -17$$



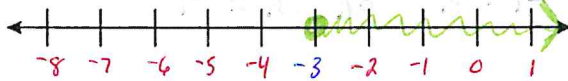
$$12. \frac{17}{-17} > \frac{-17x}{-17}$$

$$-1 < x \quad \text{OR} \quad x > -1$$



$$13. \frac{-42}{14} \leq \frac{14x}{14}$$

$$-3 \leq x \quad \text{OR} \quad x \geq -3$$



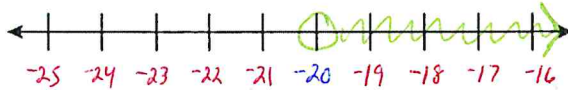
$$14. \left[\frac{p}{6} \leq -8 \right] \cdot 6$$

$$p \leq -48$$



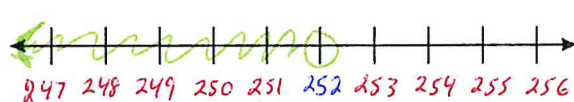
$$15. \frac{240}{-12} > \frac{-12p}{-12}$$

$$-20 < p \quad \text{OR} \quad p > -20$$



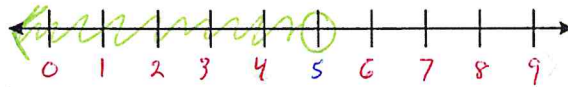
$$16. \left[\frac{b}{14} < 18 \right] \cdot 14$$

$$b < 252$$



$$17. \frac{-55}{-11} < \frac{-11n}{-11}$$

$$5 > n \quad \text{OR} \quad n < 5$$



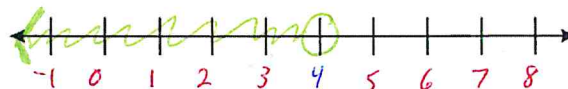
$$18. \frac{16x}{16} < \frac{-144}{16}$$

$$x < -9$$



$$19. \frac{17x}{17} < \frac{68}{17}$$

$$x < 4$$



$$20. \frac{228}{19} > \frac{19x}{19}$$

$$12 > x \quad \text{OR} \quad x < 12$$

