

Name: _____

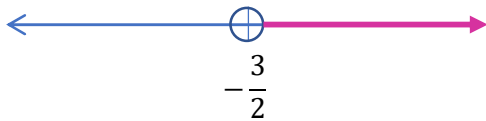
Date: _____

Learning Goal 9.1

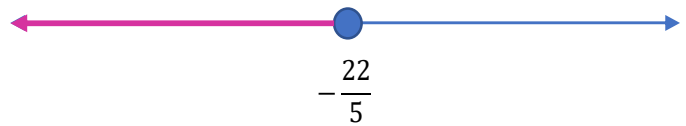
Solving linear inequalities.

Solve each inequality. Graph the solution, and use a test point to verify your answer.

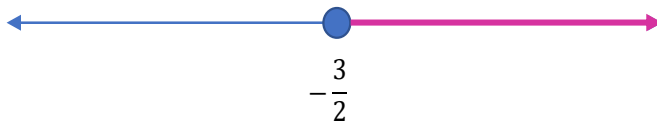
a. $4 - 2t < 7$
 $-2t < 3$
 $t > -\frac{3}{2}$



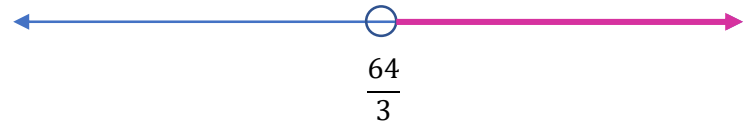
b. $-5x + 2 \geq 24$
 $-5x \geq 22$
 $x \leq -\frac{22}{5}$



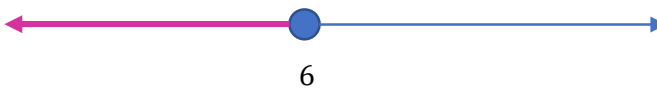
c. $1 - k \leq 4 + k$
 $1 \leq 4 + 2k$
 $-3 \leq 2k$
 $-\frac{3}{2} \leq k$



d. $1 + \frac{3}{4}x > 17$
 $\frac{3}{4}x > 16$
 $3x > 64$
 $x > \frac{64}{3}$



e. $4 - \frac{2}{3}d \geq \frac{5}{6}d - 5$
 $4 - \frac{4}{6}d \geq \frac{5}{6}d - 5$
 $4 \geq \frac{9}{6}d - 5$
 $9 \geq \frac{9}{6}d$
 $54 \geq 9d$
 $6 \geq d$



f. $3(0.4h + 5) > 4(0.2h + 7)$
 $1.2h + 15 > 0.8h + 28$
 $0.4h + 15 > 28$
 $0.4h > 13$
 $h > 32.5$

