

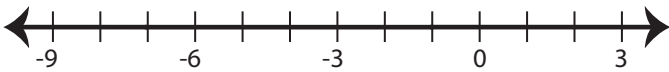
Name : _____

Score : _____

Solving & Graphing Inequalities

Solve each problem and graph the solutions.

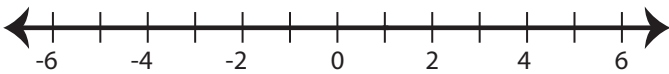
1) $-6 < \frac{2x-4}{3} < -2$



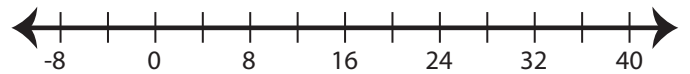
2) $2(5x-13) \leq 4$ or $72 \geq 3(2x+6)$



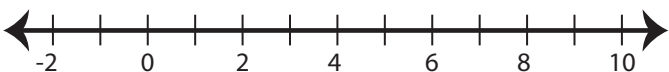
3) $\frac{3x+4}{2} > -1$ and $5 > \frac{8x+7}{3}$



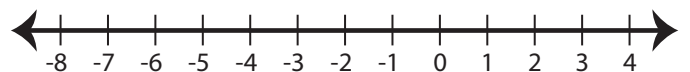
4) $8 > \frac{3x-8}{5} \geq -4$



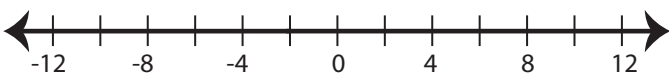
5) $3(2x-15) \geq -9$ or $-19 \leq \frac{x}{5} - 4x$



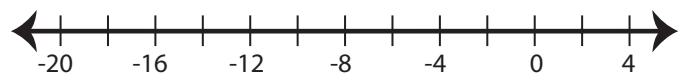
6) $4(6x+10) < -56$ and $2(-9-8x) \geq 30$



7) $-3 < \frac{x}{2} + x$ and $42 > 2(6x+9)$



8) $2(3x+28) < -16$ or $\frac{5x-31}{7} \geq -3$

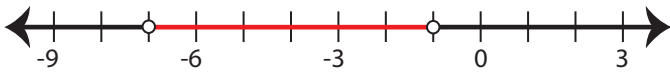


Answer key

Solve each problem and graph the solutions.

1) $-6 < \frac{2x-4}{3} < -2$

$-7 < x < -1$



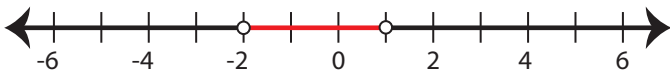
2) $2(5x-13) \leq 4$ or $72 \geq 3(2x+6)$

$x \leq 9$



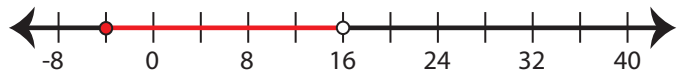
3) $\frac{3x+4}{2} > -1$ and $5 > \frac{8x+7}{3}$

$x > -2$ and $x < 1$



4) $8 > \frac{3x-8}{5} \geq -4$

$-4 \leq x < 16$



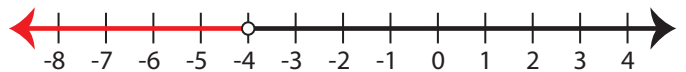
5) $3(2x-15) \geq -9$ or $-19 \leq \frac{x}{5} - 4x$

$x \leq 5$ or $x \geq 6$



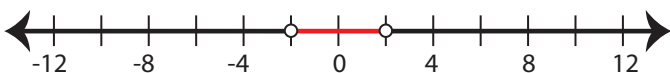
6) $4(6x+10) < -56$ and $2(-9-8x) \geq 30$

$x < -4$



7) $-3 < \frac{x}{2} + x$ and $42 > 2(6x+9)$

$x > -2$ and $x < 2$



8) $2(3x+28) < -16$ or $\frac{5x-31}{7} \geq -3$

$x < -12$ or $x \geq 2$

