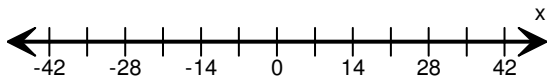


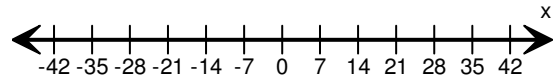
Multi-step Inequalities

Solve each inequality and graph the solutions:

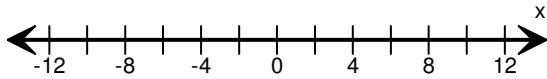
1) $\frac{2}{x-4} \leq \frac{1}{x+5}$



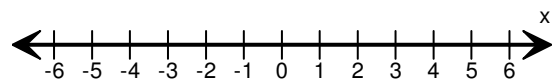
2) $(x - 2) > 3(x + 4)$



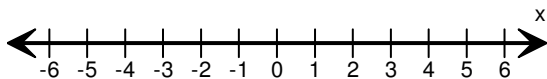
3) $\frac{x}{2} + \frac{x}{4} < 3$



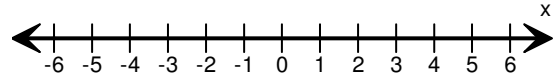
4) $\frac{1}{2x+6} \geq \frac{1}{4}$



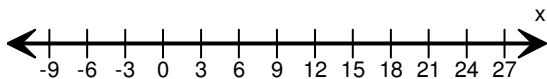
5) $\frac{6x-3}{2x+1} > 1$



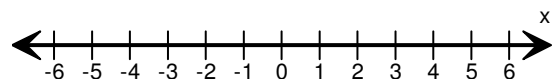
6) $5x + 1 \leq 2(x + 2)$



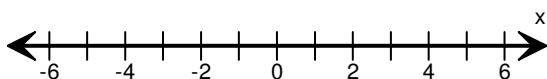
7) $\frac{1}{2x-4} < \frac{1}{x+5}$



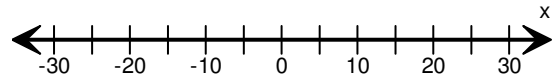
8) $8x + 5 + 3x \geq 7x - 1 + 2x$



9) $12(x - 1) > -4(x - 5)$

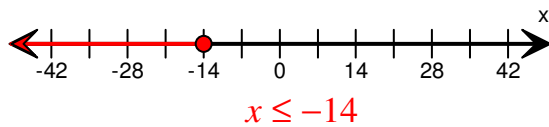


10) $\frac{x}{5} + \frac{x}{2} < 7$

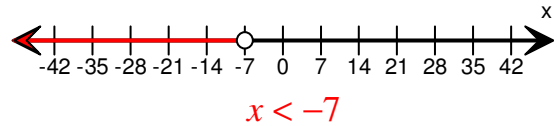


Answers:

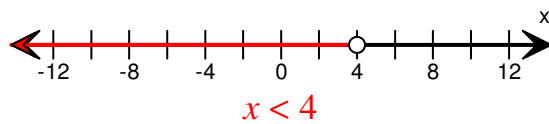
1) $\frac{2}{x-4} \leq \frac{1}{x+5}$



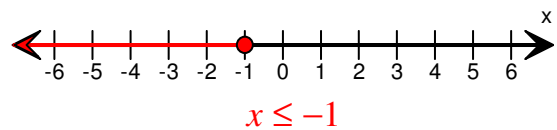
2) $(x - 2) > 3(x + 4)$



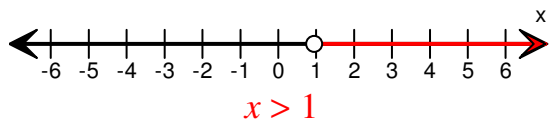
3) $\frac{x}{2} + \frac{x}{4} < 3$



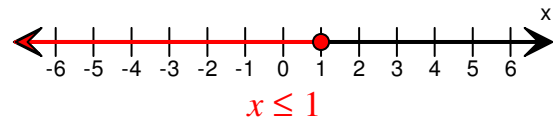
4) $\frac{1}{2x+6} \geq \frac{1}{4}$



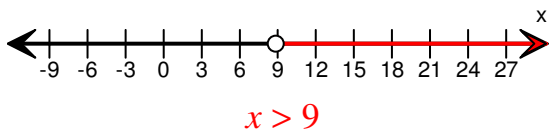
5) $\frac{6x-3}{2x+1} > 1$



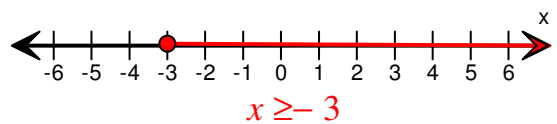
6) $5x + 1 \leq 2(x + 2)$



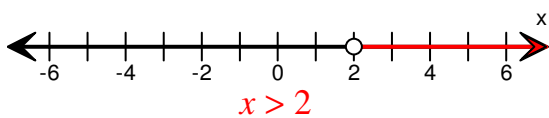
7) $\frac{1}{2x-4} < \frac{1}{x+5}$



8) $8x + 5 + 3x \geq 7x - 1 + 2x$



9) $12(x - 1) > -4(x - 5)$



10) $\frac{x}{5} + \frac{x}{2} < 7$

