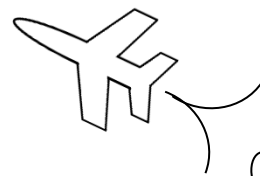


Math on the Fly!



NAME: _____ DATE: _____

Solving Multi-Step Inequalities

Solve each inequality and graph the solution on a number line.

1. $7x - 8 < 5x - 2$

2. $6(x - 3) \geq -18$

3. $4(2x + 3) \leq 9x - 9$

4. $34 > 2(5 + 2x)$

5. $2x - 7x - x > 12$

6. $10x \leq -5(7 - x)$

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

8. $x - 0.5 < -0.5(4x + 7)$

9. $-8(x + 3) > -9x + 6$

10. $2(x + 2) - 5 \leq 5(x - 1) + 6x$

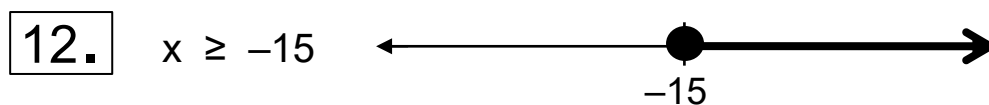
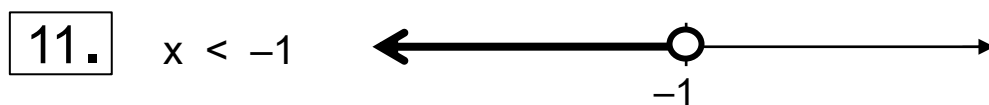
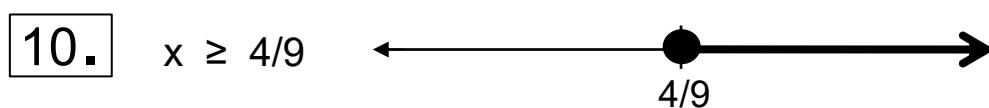
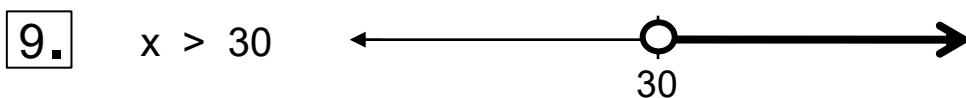
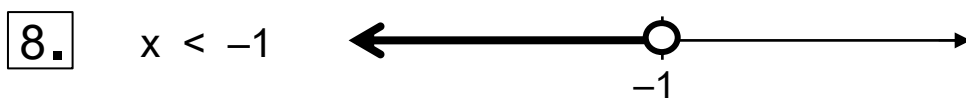
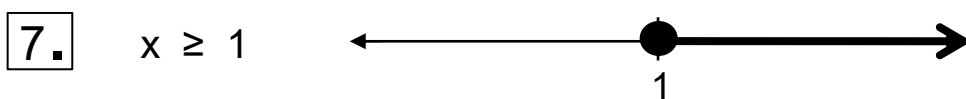
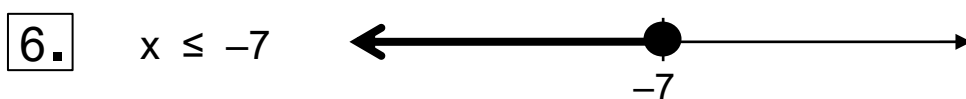
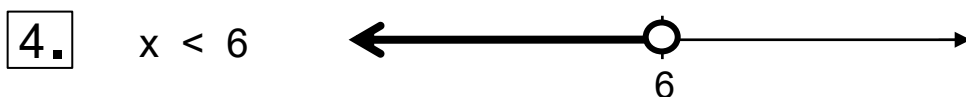
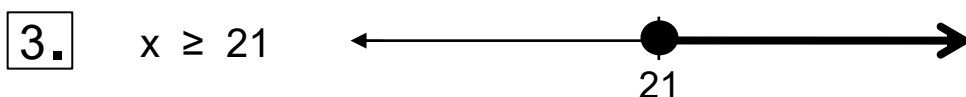
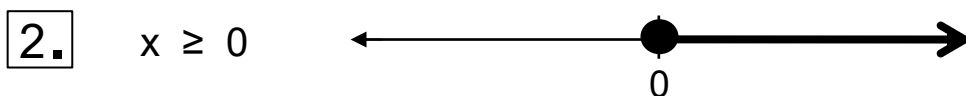
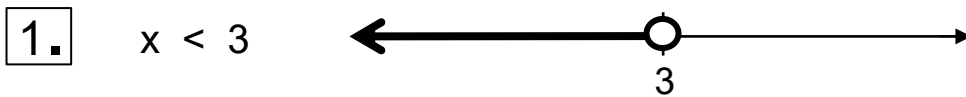
11. $7(x + 4) + 3(x + 5) < 33$

12. $\frac{x}{6} + 3 \geq \frac{1}{2}$

13. $\frac{3}{4}x - 1 \leq \frac{7}{10}x - \frac{2}{5}$

14. $\frac{7}{4}x + 9 > \frac{3}{4}x + \frac{1}{2}x$

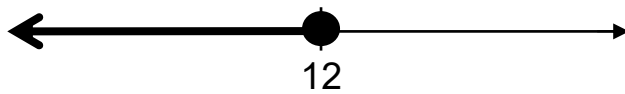
SOLUTIONS



SOLUTIONS

13.

$$x \leq 12$$



14.

$$x > -18$$

