

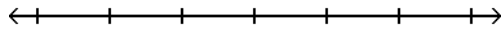
Inequalities 3

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve and graph. Write the solution set in set-builder and interval notation.

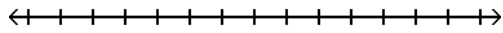
1) $9m - 8 \geq 8m - 18$

1) _____



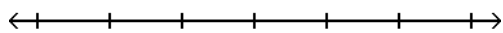
2) $x - \frac{2}{21} > -\frac{8}{21}$

2) _____



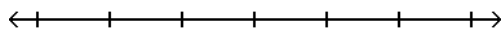
3) $-3 < \frac{a}{4}$

3) _____



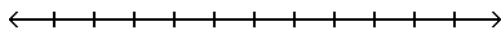
4) $-4 > \frac{x}{-2}$

4) _____



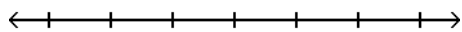
5) $-2x < -\frac{1}{7}$

5) _____



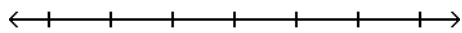
6) $4z + 7 \leq 3z + 9$

6) _____



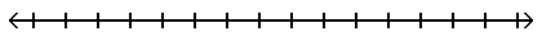
7) $-9 - 5y + 3 \geq -6y + 1$

7) _____

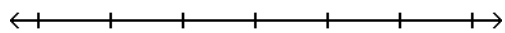


8) $\frac{x}{2} + 2 \leq 7$

8) _____

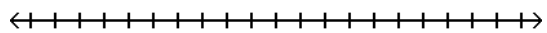


9) $-6(5y - 4) < -36y + 6$



9) _____

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

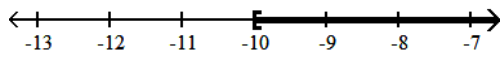


10) _____

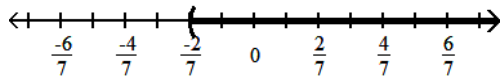
Answer Key

Testname: SOLVING INEQUALITIES3

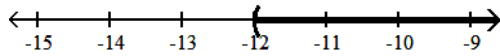
1) $\{m \mid m \geq -10\}; [-10, \infty)$



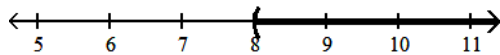
2) $\left\{x \mid x > -\frac{2}{7}\right\}; \left(-\frac{2}{7}, \infty\right)$



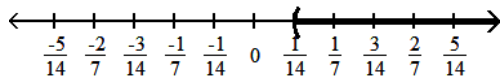
3) $\{a \mid a > -12\}; (-12, \infty)$



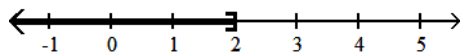
4) $\{x \mid x > 8\}; (8, \infty)$



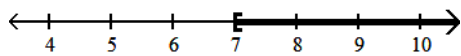
5) $\left\{x \mid x > \frac{1}{14}\right\}; \left(\frac{1}{14}, \infty\right)$



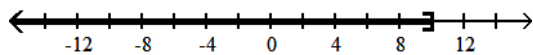
6) $\{z \mid z \leq 2\}; (-\infty, 2]$



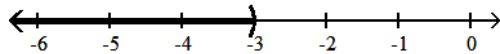
7) $\{y \mid y \geq 7\}; [7, \infty)$



8) $\{x \mid x \leq 10\}; (-\infty, 10]$



9) $\{y \mid y < -3\}; (-\infty, -3)$



10) $\{x \mid x < -4\}; (-\infty, -4)$

