

Intermediate Algebra Skill

Solving Linear Inequalities, Using Multiplication (Division) Property; Positive Integer Coefficients

Solve the linear inequalities:

1) $9t < -81$

2) $8x \geq 24$

3) $2z \leq 15$

4) $3y > -12$

5) $4w < 52$

6) $5s \leq 135$

7) $6a > -72$

8) $7b \geq 78$

9) $8c < 40$

10) $9x \geq 126$

**Answers to Solving Linear Inequalities, Using Multiplication (Division) Property;
Positive Integer Coefficients**

1) $\{t|t < -9\}; (-\infty, -9)$

2) $\{x|x \geq 3\}; [3, \infty)$

3) $\left\{z \mid z \leq \frac{15}{2}\right\}; \left(-\infty, \frac{15}{2}\right]$

4) $\{y|y > -4\}; (-4, \infty)$

5) $\{w|w < 13\}; (-\infty, 13)$

6) $\{s|s \leq 27\}; (-\infty, 27]$

7) $\{a|a > -12\}; (-12, \infty)$

8) $\left\{b \mid b \geq \frac{78}{7}\right\}; \left[\frac{78}{7}, \infty\right)$

9) $\{c|c < 5\}; (-\infty, 5)$

10) $\{x|x \geq 14\}; [14, \infty)$