Name: _

Solving Two-Step Inequalities

Solving inequalities follows the same procedure as solving equations **except** when multiplying or dividing by a negative integer, the inequality symbol flips.

$$5x > 8x + 27$$

-8x -8x

$$\frac{-3x}{-3} > \frac{27}{-3}$$

$$x < -9$$

$$4x + 3 < -1$$

$$\frac{4x}{4} < \frac{-4}{4}$$



Preview

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| 3. | _ | 4. | h | _ | 4 | < | 8 |
|----|---|----|---|---|---|---|---|

| Solving | Two-Step | Inequalitie | \S |
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5.
$$6x - 19 > 5$$

6.
$$-9y - 11 \le 16$$



Preview

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9.
$$2x - 5 \ge 7$$

ANSWER KEY

Solving Two-Step Inequalities

1.
$$5y - 3 > -18$$

 $\frac{+3}{5} > \frac{+3}{5}$

2.
$$3x + 11 \ge 5$$

$$\frac{-11}{3x} \ge \frac{-6}{3}$$

Preview

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$$\frac{2x}{2} \ge \frac{12}{2}$$

 $x \ge 6$

$$\frac{9y}{9} > \frac{9}{9}$$

y > 1