Name : _____ Score : _____

Solving Multi-Step Inequalities

Decimals: S1

Solve each inequality.

1) $\frac{1}{x + 2.3} \leq \frac{3}{x - 4.1}$

2) $\frac{5.6}{x - 2} > \frac{3.5}{x + 1}$

3) $8x + 10.2 <$ [illegible] 9

5) $9.3 - 6x \leq 4$ [illegible]

7) $15x + 16.5 < 10x + 2.4$

8) $\frac{7x + 3.9}{x + 8.2} > 5$

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Name : _____ **Answer key** Score : _____

Solving Multi-Step Inequalities

Decimals: S1

Solve each inequality.

1) $\frac{1}{x + 2.3} \leq \frac{3}{x - 4.1}$

$x \geq -5.5$

2) $\frac{5.6}{x - 2} > \frac{3.5}{x + 1}$

$x > -6$

3) $8x + 10.2 <$ [illegible] 9

x > [illegible] **0.7**

5) $9.3 - 6x \leq 4$ [illegible]

x ≥ [illegible] **3.6**

7) $15x + 16.5 < 10x + 2.4$

$x < -2.82$

8) $\frac{7x + 3.9}{x + 8.2} > 5$

$x > 18.55$

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Name : _____ Score : _____

Solving Multi-Step Inequalities

Decimals: S2

Solve each inequality.

1) $\frac{2}{x - 3.6} \leq \frac{1}{x - 0.75}$

2) $\frac{7x}{6} + \frac{x}{2} \geq 5.9$

3) $5x - 11.06$ ... $\frac{1}{.2}$

5) $6.37 \geq \frac{4x}{5}$ ... $(x + 3.05)$

7) $x + 12.4 < 6x + 7.5$

8) $\frac{9x + 0.8}{x + 6.4} > 5$

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Name : _____ **Answer key** Score : _____

Solving Multi-Step Inequalities

Decimals: S2

Solve each inequality.

1) $\frac{2}{x - 3.6} \leq \frac{1}{x - 0.75}$

$x \leq -2.1$

2) $\frac{7x}{6} + \frac{x}{2} \geq 5.9$

$x \geq 3.54$

3) $5x - 11.06$ ... $\frac{1}{.2}$

x > ... **5.35**

5) $6.37 \geq \frac{4x}{5}$ - ... $(x + 3.05)$

x ≤ ... **1.77**

7) $x + 12.4 < 6x + 7.5$

$x > 0.98$

8) $\frac{9x + 0.8}{x + 6.4} > 5$

$x > 7.8$

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Name : _____ Score : _____

Solving Multi-Step Inequalities

Decimals: S3

Solve each inequality.

1) $12x + 5.64 > 10x - 16.92$

2) $\frac{3}{8.7 - 2x} < \frac{1}{4.5}$

3) $\frac{6}{x - 7.2} \geq$ 2

5) $3x + 4.16 \leq$

7) $8.15 \geq \frac{2x}{3} - \frac{x}{9}$

8) $7.2 + 12x < 4(x + 0.16)$

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Name : _____ **Answer key** Score : _____

Solving Multi-Step Inequalities

Decimals: S3

Solve each inequality.

1) $12x + 5.64 > 10x - 16.92$

$x > -11.28$

2) $\frac{3}{8.7 - 2x} < \frac{1}{4.5}$

$x < -2.4$

3) $\frac{6}{x - 7.2} \geq \frac{}{x}$ … 2

x … 0.32

5) $3x + 4.16 \leq$ …

x ≥ … 12.24

7) $8.15 \geq \frac{2x}{3} - \frac{x}{9}$

$x \leq 14.67$

8) $7.2 + 12x < 4(x + 0.16)$

$x < -0.82$

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