

Name : \_\_\_\_\_

Date : \_\_\_\_\_

## Inequality Worksheet

Solve each inequality.

1  $4x - 27 > 17$

2  $-\frac{2}{7}(1 - 4x) + 8 < 18$

3  $22 < 3(x + 7) < 23$

4  $2v + 11 > 4v - 7 - 16$

5  $\frac{1}{2} \leq \frac{4x + 5}{2}$

6  $-3x - 19 < -18$

7  $\frac{t + 3}{2} < -8$

8  $0.5x + 3.6 > 8.1$

9  $-10 < 6x + 2 \leq 32$

10  $-1 < -\frac{x}{9} + 2$

11  $1 \leq 4x - 7 < 11$

12  $-24 \leq 3x - 9 \leq -14$

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## Inequality Worksheet

### Answers

1  $4x - 27 > 17$

$x > 11$

2  $-\frac{2}{7}(1 - 4x) + 8 < 18$

$x < 9$

3  $22 < 3(x + 7) < 23$

$\frac{1}{3} < x < \frac{2}{3}$

4  $2v + 11 > 4v - 7 - 16$

$v < 17$

5  $\frac{1}{2} \leq \frac{4x + 5}{2}$

$\frac{1}{3} < x < \frac{2}{3}$

6  $-3x - 19 < -18$

$x < -\frac{1}{3}$

7  $\frac{t + 3}{2} < -8$

$t < -19$

8  $0.5x + 3.6 > 8.1$

$x > 9$

9  $-10 < 6x + 2 \leq 32$

$-2 < x \leq 5$

10  $-1 < -\frac{x}{9} + 2$

$x < 27$

11  $1 \leq 4x - 7 < 11$

$2 \leq x < \frac{9}{2}$

12  $-24 \leq 3x - 9 \leq -14$

$-5 \leq x \leq -\frac{5}{3}$