

Name :

Date :

Inequalities Worksheet

Solve the given inequalities.

1 $3x - 8 \leq 22$

2 $5r + 10 \geq 19$

3 $6x - 7 \leq 5$

4 $-t + 1 \geq 6$

5 $5a - 4 > 2a + 8$

6 $x + 1 \geq 3x - 18$

7 $5x - 2 \geq 68$

8 $5(x - 3) \geq 40$

9 $4x + 7 < 11$

10 $4(x - 2) > 20$

11 $4 - 2x \geq -8$

12 $7x - 5 \geq 3x + 11$

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Answers

1 $3x - 8 \leq 22$

$$x \leq 10$$

3 $6x - 7 \leq 5$

$$x \leq 2$$

5 $5a - 4 > 2a + 8$

$$a > 4$$

7 $5x - 2 \geq 68$

$$x \geq 14$$

9 $4x + 7 < 11$

$$x < 1$$

11 $4 - 2x \geq -8$

$$x \leq 6$$

2 $5r + 10 \geq 19$

$$r \geq \frac{9}{5}$$

4 $-t + 1 \geq 6$

$$t \leq -5$$

6 $x + 1 \geq 3x - 18$

$$x \leq \frac{19}{2}$$

8 $5(x - 3) \geq 40$

$$x \geq 11$$

10 $4(x - 2) > 20$

$$x > 7$$

12 $7x - 5 \geq 3x + 11$

$$x \geq 4$$