

Inequalities: multiplying or dividing by a negative

NAME	DATE	SCORE
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Solve each inequality. Watch the sign.

1 $x - 3 < 1$	2 $9x \leq -18$
3 $-3n < -21$	4 $3y \geq 45$
5 $-8n \geq -48$	6 $-4n \geq 12$
7 $x - 10 > 4$	8 $-5y \leq 40$
9 $3y < 27$	10 $-4x \leq 0$
11 $-4y > -24$	12 $-2y \leq -18$
13 $-7n \geq -21$	14 $-7n \geq -7$
15 $-6n \geq -12$	16 $x + 3 > 10$
17 $-7n \geq -35$	18 $-2x < -14$
19 $-5x > -50$	20 $-3n \geq -12$

Inequalities: multiplying or dividing by a negative

1 $x - 3 < 1$ $x < 4$

4 $3y \geq 45$ $y \geq 15$

7 $x - 10 > 4$ $x > 14$

10 $-4x \leq 0$ $x \geq 0$

13 $-7n \geq -21$ $n \leq 3$

16 $x + 3 > 10$ $x > 7$

19 $-5x > -50$ $x < 10$

2 $9x \leq -18$ $x \leq -2$

5 $-8n \geq -48$ $n \leq 6$

8 $-5y \leq 40$ $y \geq -8$

11 $-4y > -24$ $y < 6$

14 $-7n \geq -7$ $n \leq 1$

17 $-7n \geq -35$ $n \leq 5$

20 $-3n \geq -12$ $n \leq 4$

3 $-3n < -21$ $n > 7$

6 $-4n \geq 12$ $n \leq -3$

9 $3y < 27$ $y < 9$

12 $-2y \leq -18$ $y \geq 9$

15 $-6n \geq -12$ $n \leq 2$

18 $-2x < -14$ $x > 7$