

Inequalities: multiplying or dividing by a negative

NAME	DATE	SCORE / 20
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Solve each inequality. Watch the sign.

1 $x - 3 < 1$ _____

3 $-3n < -21$ _____

5 $-8n \geq -48$ _____

7 $x - 10 > 4$ _____

9 $3y < 27$ _____

11 $-4y > -24$ _____

13 $-7n \geq -21$ _____

15 $-6n \geq -12$ _____

17 $-7n \geq -35$ _____

19 $-5x > -50$ _____

2 $9x \leq -18$ _____

4 $3y \geq 45$ _____

6 $-4n \geq 12$ _____

8 $-5y \leq 40$ _____

10 $-4x \leq 0$ _____

12 $-2y \leq -18$ _____

14 $-7n \geq -7$ _____

16 $x + 3 > 10$ _____

18 $-2x < -14$ _____

20 $-3n \geq -12$ _____

Inequalities: multiplying or dividing by a negative

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