Tutor-USA.com Worksheet Pre-Algebra Solving One-Step Inequalities using Multiplication & Division

1) State the rule for multiplying or dividing an inequality by a negative number.

Solve each inequality. Graph each inequality on the number line and check the solution.

2)
$$20 \le 5x$$

3)
$$4n < 20$$





4)
$$-20y > 120$$

5)
$$1 \ge -x$$





6)
$$\frac{k}{5} < -35$$

$$7) \quad \frac{c}{-2} < 0$$

8)
$$3x \ge -9$$

$$9) \qquad \frac{n}{2} \ge -5$$



10)
$$7 > \frac{p}{-2}$$

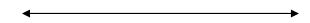
11)
$$-55 < -11p$$





12)
$$s \div -2 \le 3$$

13)
$$30x \ge -90$$





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Answer Key

- 1) When you multiply or divide both sides of an inequality by a negative number, you must reverse the direction of the inequality.
- 2) $4 \le x$
- 3) n < 5
- 4) y < -6
- 5) $-1 \le x$
- 6) k < -7
- 7) c > 0
- 8) $x \ge -3$
- 9) $n \ge -10$
- 10) -14 < p
- 11) 5 > p
- 12) $s \ge -6$
- 13) $x \ge -3$