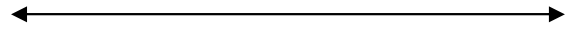
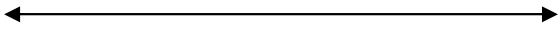


1) State the rule for multiplying or dividing an inequality by a negative number.

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

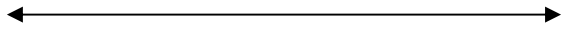
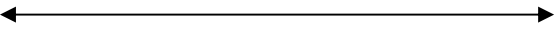
2) $20 \leq 5x$

3) $4n < 20$



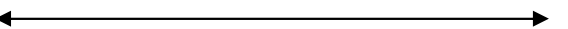
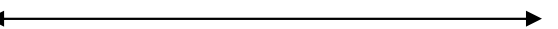
4) $-20y > 120$

5) $1 \geq -x$



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

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



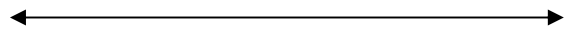
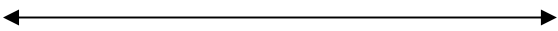
8) $3x \geq -9$

9) $\frac{n}{2} \geq -5$



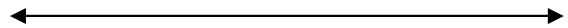
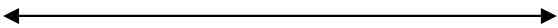
10) $7 > \frac{p}{-2}$

11) $-55 < -11p$



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

13) $30x \geq -90$



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) $4 \leq x$
- 3) $n < 5$
- 4) $y < -6$
- 5) $-1 \leq x$
- 6) $k < -7$
- 7) $c > 0$
- 8) $x \geq -3$
- 9) $n \geq -10$
- 10) $-14 < p$
- 11) $5 > p$
- 12) $s \geq -6$
- 13) $x \geq -3$