1. Write an inequality to model this statement:

There must be at least 30 psi in the tire for it to be safe to drive on.

$$X \geq 30$$

2. Solve.

$$7 - 4Q < -38$$
$$+7 \quad +7$$
$$\frac{-4Q < -31}{-4} \quad \frac{}{-4}$$

$$Q > 7.75$$

3. Use a Boolean Check to see if   m < -60 is the solution to the following inequality:

$$-\frac{2}{3}m + 2 - \frac{1}{6}m < 52$$

4. Solve.

$$5k - 2(6k + 3) \geq -7k - 9$$
$$5k - 12k + -6 \geq -7k - 9$$
$$-7k + -6 \geq -7k - 9$$

All Real #

$$-6 \geq -9$$