

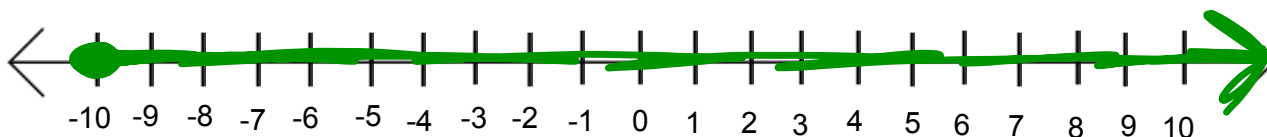
Solve and graph.

$$4 \geq -1 - \frac{n}{2}$$

$$n \geq -10$$

$$-2(5) \geq \left(-\frac{n}{2}\right)(-2)$$

$$-10 \leq n$$



McQuiz

Ⓚ

$$-2\frac{2}{3} = 5 + \frac{4}{5}x$$

$\frac{1}{1} - \frac{1}{1} = \frac{1}{1} - \frac{1}{1}$
 $\frac{1}{1} - \frac{1}{1} = \frac{1}{1} - \frac{1}{1}$
 $\frac{1}{1} - \frac{1}{1} = \frac{1}{1} - \frac{1}{1}$

$$\frac{5}{4} \left(-\frac{23}{3} \right) = \left(\frac{4}{5}x \right) \frac{5}{4}$$

$$-\frac{115}{12} = x$$

$\frac{1}{1} - \frac{1}{1} = \frac{1}{1} - \frac{1}{1}$
 $\frac{1}{1} - \frac{1}{1} = \frac{1}{1} - \frac{1}{1}$
 $\frac{1}{1} - \frac{1}{1} = \frac{1}{1} - \frac{1}{1}$

$$-9\frac{7}{12} = x$$

②

$$\frac{7.45 - 4.62}{4.62} = \frac{2.83}{4.62}$$

0.612554113

61.26%

⑦

$$\begin{array}{r} -4.1 - n = -10.6 \\ +4.1 \quad +4.1 \end{array}$$

$$\begin{array}{r} 10.6 \\ - 4.1 \\ \hline - 6.5 \end{array}$$

$$\begin{array}{r} -n = -6.5 \\ \hline -1 \quad -1 \\ \hline n = 6.5 \end{array}$$

①

$$0.75(\underline{845}) =$$

$$\$633.75$$

$$\begin{array}{r} \textcircled{5} \quad 4 - 5x = -16 \\ -4 \qquad \qquad -41 \\ \hline -5x = -20 \\ \hline -5 \qquad -5 \\ \hline x = 4 \end{array}$$

$$\textcircled{9} \quad \underline{-2x - 3y} + 7x + 4 - \underline{8y}$$

$$5x - 11y + 4$$

$$\begin{aligned} & -3y - 8y \\ & -3 - 8 \\ & -3 + (-8) = -11 \end{aligned}$$

$$\textcircled{Q} \quad \frac{3}{4}x + 2 = -8$$
$$\quad \quad \quad -2 \quad -2$$

$$\frac{4}{3} \left(\frac{3}{4}x \right) = \left(\frac{-10}{1} \right) \frac{4}{3}$$
$$x = -\frac{40}{3}$$
$$x = -13\frac{1}{3}$$

$$\textcircled{10} \quad 4 - \underline{3}(5x - 7)$$

$$\underline{4} - 15x + \underline{21}$$

$$\textcircled{-15x + 25}$$

Solve.

$$3.2m - 0.5 \geq 26.7$$

$\uparrow 0.5 \quad \uparrow 0.5$

$$\begin{array}{r} 3.2 \overline{) 27.2} \\ \underline{9.6} \\ 8.5 \\ \underline{9.6} \\ 0 \\ \hline 8.5 \end{array}$$

$$\begin{array}{r} 32 \overline{) 272.0} \\ \underline{256} \\ 160 \\ \underline{160} \\ 0 \\ \hline 8.5 \end{array}$$

$$\frac{3.2m}{3.2} \geq \frac{27.2}{3.2}$$

$$m \geq 8.5$$

Write an inequality to solve the problem.

A salesperson makes \$340 per week in base pay plus 10% commission on all of their sales. How much merchandise would they need to sell if they want to make more than \$600?

$$\begin{array}{r} 340 + 0.10s > 600 \\ - 340 \quad \quad - 340 \\ \hline \end{array}$$

$$\begin{array}{r} 0.10 \overline{) 260} \\ \underline{2600.} \\ 1 \overline{) 2600.} \\ \underline{-26} \\ 06 \\ \underline{-6} \\ 0 \end{array}$$

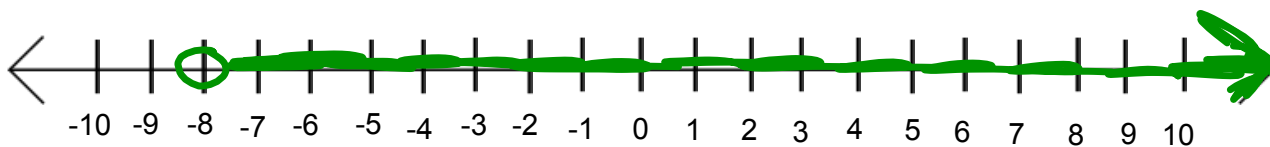
$$\begin{array}{r} 0.10s > 260 \\ \underline{0.10} \quad \underline{0.10} \\ s > 2600 \end{array}$$

more than \$2600
worth of merchandise

Solve and graph.

$$\begin{array}{r} 14 > -d + 6 \\ \underline{-6 \quad -6} \\ 8 > -d \\ \underline{-1 \quad -1} \\ -8 < d \end{array}$$

$$d > -8$$



Write an inequality to solve the problem.

Nate puts \$20 in his savings account each week. If he already has \$190 in his savings account, how long will it take him to save up enough money to buy a projector for \$530?

Write an inequality to solve the problem.

Jane's cell phone plan costs \$35 per month plus \$0.06 per minute for calls. How many minutes can she use if she wants to keep her bill under \$50?

Solve.

$$\frac{3}{4}g - \frac{1}{3} \leq -6$$

Solve.

$$-3.15 > 6.3 - w$$

5) Max charges \$6.25/h to rake leaves. He is trying to save enough money for a new pair of shoes that cost \$89. How many whole hours will he need to work to buy the shoes?

6) First Bank charges \$4.50 per month for a basic checking account plus \$0.15 for each check written. Citizen's Bank charges a flat fee of \$9. How many checks would you have to write each month in order for Citizen's Bank to be a better deal?

7) Manny plays on a baseball team and is trying to break his school's record by getting 61 hits this season. Halfway through the season he already had 34 hits. Manny averages 2 hits per game. At that rate, how many more games will it take for Manny have at least 61 hits.

8) A tank of water currently has 50 gallons in it but it has developed a leak causing it to lose 3 gallons per minute. After how many minutes will the tank have less than 32 gallons in it?

9) How long can each side of an equilateral triangle be if its perimeter is at most 84cm?

March 5, 2022

