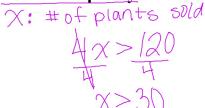
Ravi and his friends are having a plant sale to raise money for summer camp. They are selling each plant for \$4. How many plants do they need to sell to make more than \$120? Identify the variable. Write and solve an inequality for this situation.





You are helping your parents build a garden. It will be rectangular in shape. The area needs to be <u>no</u> greater than 300 square feet. The location of the garden only allows a width of 12 feet. Identify the variable. Write and solve an inequality for this situation.

L: length $12L \leq 300$ $12 \qquad 12$ $L \leq 25$



Write the inequality. Solve, if possible

1. x is at least 58.

possible solns 68,70,59,58 2. The product of 22 and y is at most 308.

 $\frac{22y \leq 308}{22}$

3. 10 less than a number n is greater than 47.

 $-4 \ge 0$ $0 \le 8 \le x - 14$ $-4 \le 14$ $0 \le x - 14$ $-4 \le x - 14$ $0 \le x - 14$ $-4 \le x -$

Solve and graph each inequality.

1. $-10 \ge a - 6$

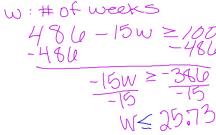
4. 15p < 60 15 15

* When you multiply

Jason is saving to buy a camera. The camera costs \$490. He has saved \$175. He would like to buy the camera in 3 weeks. Identify the variable and write an inequality to represent the least amount of money he must save every week to have enough to purchase the camera.

$$x: $$ saved each week $|75 + 3x| \ge 490$
 -175
 $3x \ge 315$
 $3x \ge 105$$$

Julia has \$486 in her bank account. She is going to withdraw \$15 a week. How many weeks can she do this without going below the banks required minimum of \$100 in her account. Remember to identify the variable.



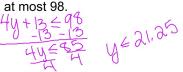


Write the inequality. Solve, if possible

1. The sum of **m** and **n** is less than 14.

2. If 11 times a number is increased by 5, the result is at least 115.

3. The product of 4 and y added to 13 is at most 98.



Solve and graph each inequality.

1.
$$-6 + 5x < 19$$
 $+6$
 $5x < 25$
 5
 $x < 5$

3. $-\frac{1}{2}x + 3 \le 7$
 $-\frac{1}{2}x < \frac{1}{2}$
 $+\frac{1}{2}x < \frac{1}{2}$
 $+\frac{1}{2}x < \frac{1}{2}x < \frac{1}{2}$
 $+\frac{1}{2}x < \frac{1}{2}x < \frac{1}{$

