

## Two-Step Inequality Practice (Math 7 Plus - Unit 3)

Solve each of the inequalities below and graph.

$$2x - 8 \leq -6$$

$$25 - 2x \leq 15$$

$$-2x - 6 < -8$$

$$\frac{x}{5} + 6 \geq 12$$

$$-x + 15 > 29$$

$$\frac{x}{3} - 2 < 6$$

$$-3x + (-6) > 9$$

$$-4 + \frac{x}{2} \geq 5$$

$$\frac{x}{-3} - 4 \geq 3$$

Sarah made \$20 yesterday and will make \$8 per hour today. If she wants to make at least \$100 after today how what is the least amount of hours she needs to work?

There will be no more than 120 students on each team. If there are 4 classes per team how many students will be in each class?

The quotient of  $n$  and  $-5$  plus 12 is at the most 62.

One and Two-Step Inequality Word Problems with Integers

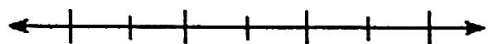
Define a variable (V), write an inequality (I), and solve (S) & graph the inequality that represents the solution set.

1. A store makes a profit of \$25 on each watch it sells. What solution set will represent how many watches the store must sell to make a profit of at least \$375?

V: \_\_\_\_\_

I: \_\_\_\_\_

S: \_\_\_\_\_

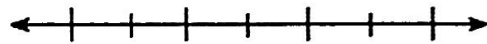


2. The sum of three integers is at most -57. If one integer is 33 and another is -23, what is the solution set for the third integer?

V: \_\_\_\_\_

I: \_\_\_\_\_

S: \_\_\_\_\_

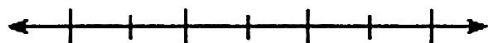


3. The difference of four times a number and -8 is greater than -120. What is the solution set for the number?

V: \_\_\_\_\_

I: \_\_\_\_\_

S: \_\_\_\_\_



4. 3 times the difference of a number and 8 is no more than -93. What is the solution set for the number?

V: \_\_\_\_\_

I: \_\_\_\_\_

S: \_\_\_\_\_

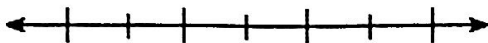


5. Working at Burger in a Box, you are paid \$25 each week plus \$6 per hour. This week, you want your pay to be at least \$133. What solution set represents the amount of hours that you must work to earn enough?

V: \_\_\_\_\_

I: \_\_\_\_\_

S: \_\_\_\_\_



6. The 12 members of the Filmmaking Club need to raise at least \$1400 to make a short film. They already have raised \$650. What solution set represents the amount that each member must raise to reach their team goal?

V: \_\_\_\_\_

I: \_\_\_\_\_

S: \_\_\_\_\_

