

You need out your warm up, hw, & agenda

Homework: Practice- TEST FRIDAY!

Warm Up:

- 1) In order to keep a specific bacteria alive, the temperature in a science lab, cannot exceed  $-20^{\circ}\text{F}$ . The electricity went out, when the temperature was  $-72^{\circ}\text{F}$ , but is increasing at a rate of  $6.5^{\circ}$  per hour. How many hours do the scientist have until the bacteria is not safe?
- 2) You have \$50. You buy a shirt for \$28, and plan on buying bracelets with the rest- they cost \$3.50. Write an equation to represent how many bracelets you can buy.

$$3.50x + 28 = 50$$

## Equation/Inequality Word Problems

1) Louis's new cable service charges an installation fee of \$45. Then, his bill will be \$90.25 a month. Including the installation fee, how many months of cable can he receive for \$315.75?

$$90.25x + 45 = 315.75$$

2) You have at least \$60 to spend on school supplies. You want to buy a book bag that costs \$35, and notebooks that cost \$3.50 each. To stay in his budget, how many notebooks can he buy?

$$3.50x + 35 \geq 60$$

3) Yesterday you earned \$5.50 for every dog you walked. If you earned \$45.40 total, write the equation to determine how many dogs you walked.

$$5.50x = 45.40$$

4) You have \$70. You buy a sweatshirt that costs \$40. With the rest of the money you want to buy socks that cost \$6 each. Write an equation to represent  $s$  how many socks you can buy. Solve!

$$6x + 40 = 70$$

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Homework: None

Warm Up: Simplify

$$1) \quad (-3x + 5) - (2x + 9) + 8y$$

$$\boxed{-5x + 8y + 14}$$

$$2) \quad -9(x - 6)$$

$$-9(x) - 9(-6)$$

$$\boxed{-9x + 54}$$

$$4 + a = a + 4$$

communative

$$(4 \cdot 5) \cdot a = 4 \cdot (5 \cdot a)$$

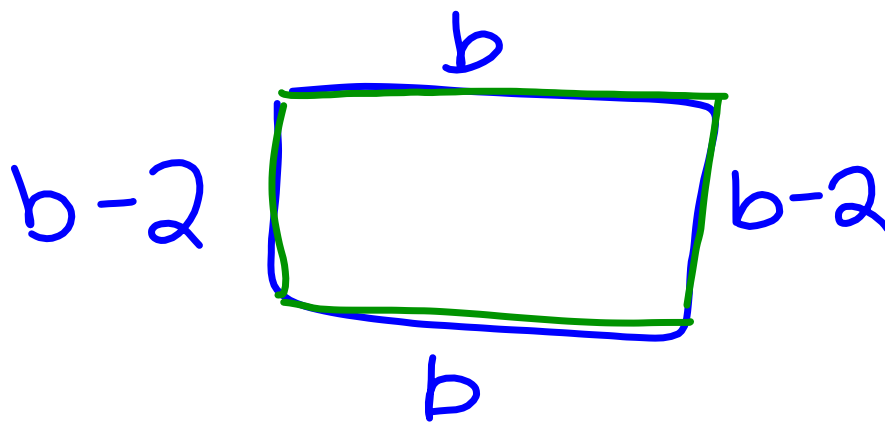
associative

$$\begin{array}{r} + \quad - \\ \hline 3x \\ 2x \\ \hline + \quad - \\ \hline 5 \end{array}$$

$$\begin{array}{r} 2 \\ \hline 2a \\ \hline 1a \end{array} + 2$$

(2a + 4)

Associative      Commutative  
 $(4 \times a) \times 5$      $4 \cdot (a \cdot 5)$        $2 + a = a + 2$



$$b + b - 2 + b + b - 2$$

$C$

$C-1$   $C-1$

$C$

$C + C - 1 + C + C - 1$

$4$   $4$

$5$   $5$

$4C - 2$

Math or TREAT!!!

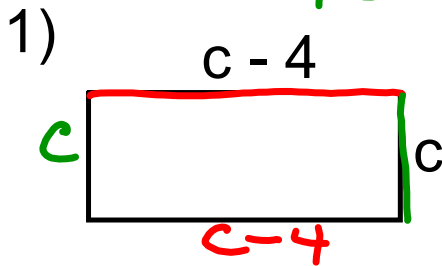
There are 5 sections of the study guide. You must get all problems correct in each section to get to pick a bag for a treat.

You have ONE chance to make corrections

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Homework: Review Sheet, TEST TOMORROW!

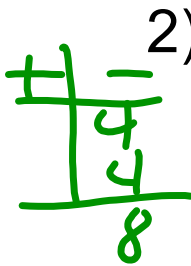
Warm Up:  $4c - 8$



find the perimeter

add all the signs

Constant + Vari = total  
 (1) + ?



You have at least \$25 to spend at the store. You buy one gatorade for \$3.50 and you want to buy candy with the rest. The candy costs \$1.30 each. Write an inequality showing how many pieces you can buy.

$$3.50 + 1.30c \geq 25$$



<p>Solve:</p> $2x + 3 = 11$ $\begin{array}{r l} -3 & -3 \\ \hline 2x & = 8 \end{array}$ $\frac{2x}{2} = \frac{8}{2} \quad x = 4$	$\begin{array}{r l} -3x > 15 \\ -3 & -3 \end{array}$ $x < -5$
$\begin{array}{r l} -3x = 15 \\ -3 & -3 \end{array}$ $x = -5$	$x + 4 = 16.8$ $\begin{array}{r l} -4 & -4.0 \\ \hline x & = 12.8 \end{array}$ $\begin{array}{r} 16.8 \\ - 4.0 \\ \hline 12.8 \end{array}$

$-2 + 6x = 22$

$$\boxed{x=4} \quad \begin{array}{r|l} 6x - 2 = 22 & \\ +2 & +2 \\ \hline 6x = 24 & \\ \underline{6} & \underline{6} \end{array}$$

$7x + 3 = -18$

$$\begin{array}{r|l} -3 & -3 \\ \hline 7x = -21 & \\ \underline{7} & \underline{7} \\ x = -3 & \end{array} \quad \begin{array}{r} + \\ - \\ \hline 18 \\ 3 \end{array}$$

$-9 = \frac{k}{3} - 6$

$$\begin{array}{r|l} \frac{k}{3} - 6 = -9 & \\ +6 & +6 \\ \hline \frac{k}{3} = -3 & \\ \underline{3} & \underline{3} \end{array}$$

$\boxed{k = -9}$

$\frac{1}{4}x - 2 = 8$

$$\begin{array}{r|l} +2 & +2 \\ \hline \frac{1}{4}x = 10 & \\ \underline{\cdot 4} & \underline{\cdot 4} \\ x = 40 & \end{array}$$

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$$\boxed{4x + 3x} + 3 = 31$$
$$7x + 3 = 31 \quad \begin{array}{r} + \\ - \\ \hline \end{array}$$
$$\begin{array}{r} 7x + 3 = 31 \\ -3 \quad -3 \\ \hline 7x = 28 \\ \hline \end{array}$$

$$x = 4$$

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$$\boxed{6x - 1} - 7 = 28$$
$$5x - 7 = 28$$

<p style="text-align: center;">Solve &amp; Graph:</p> $x + 12 < -20$ <div style="text-align: center;"> <math display="block">\begin{array}{r} -12 \quad -12 \\ \hline x &lt; -32 \end{array}</math> </div> <div style="text-align: center; margin-top: 10px;"> <math display="block">\begin{array}{r} 20 \\ \hline 12 \end{array}</math> </div> <div style="text-align: center; margin-top: 10px;"> </div>	<p style="text-align: center;">Solve &amp; Graph:</p> $-2x - 7 > 13$ <div style="text-align: center;"> <math display="block">\begin{array}{r} +5 \quad +5 \\ \hline -2x &gt; 18 \end{array}</math> </div> <div style="text-align: center; margin-top: 10px;"> <math display="block">\begin{array}{r} -2x &gt; 18 \\ \hline -2 \quad -2 \\ x &lt; -9 \end{array}</math> </div> <div style="text-align: center; margin-top: 10px;"> </div>
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Mary wants to buy a game for \$50. He already has \$26 saved and plans on earning \$4 an hour for the rest. How many hours  $h$  does he need to work? Write an equation to represent this.

$$4x + 26 = 50$$

Julie has at most \$250 to spend on her vacation. She has \$100 saved and hopes to lifeguard at \$12 per hour to earn the rest of the money. Write an inequality to describe the number of hours,  $h$ , she must lifeguard to have enough money for the trip?

Mrs. LaRue borrowed \$56 from Mrs. Sangster. She plans to repay her \$14 each week. Write an equation to represent how many weeks it will take her to pay Mrs. Sangster back.

A plumber charges \$28 for a house visit and \$60 for each hour of work. Mrs. Henry was charged \$234 total for work. Write an equation to determine the number of hours the electrician worked.

Mr. Jackson earned a bonus of \$200. His salary is \$30 an hour. If his first week's check including the bonus is \$1,876, write the equation to determine how many hours he worked that week.

Sit silently for the news

Today!

- 1) DBQ!!!!!! Typed and printed!
- 2) Modern Conflicts chart & reading  
pages 87- 90 in the NEW books!



$$\frac{x}{7} - 3 = 10$$