As you scroll through the slides

- Have the Unit 6 Study Guide in front of you printed or opened on your computer.
- Use the examples to help you on your test.
- Work out the problems on paper then put in your answer
- Use a calculator
- Mrs. Baker cannot help you answer the questions



Rewrite the expression without grouping symbols. -17(x + 4)

A.
$$-17 + 4 \cdot -17 + x$$

B. 174 – 17x

C. $-17 \cdot x + (-17) \cdot 4$

D. -17 · 4 - x

Which expression is equivalent to this one?

$$\mathbf{w} \cdot \mathbf{5} + \mathbf{w} \cdot \mathbf{x}$$

A.5(w + x)
B.w(5 + x)
C.x(5 + w)
D.w
$$\cdot$$
 (5 + w) \cdot x



Combine like terms.

$$8y + 2x - 6x + 15y$$

Evaluate the expression by using the given values of the variables.

 $y \div 4 \bullet 3 - 6 \div x + 8$ where x = 2 and y = 20

- 1. Plug in 2 and 20
- 2. Simplify using order of operations
 - 1. Multiply or divide left to right
 - 2. Add or subtract left to right



Solve for the variable. $\frac{x+3}{5} = -3$

Simplify. 10(3 – x)



Which inequality is graphed on the number line shown?



B. x ≥ 7

C. x ≤ 7

D. x < 7

Identify the solution set of the given inequality using the given replacement set.

 $x > -7; \{-9, -8.2, -7.1, -7, -4.3, 1.3, 3\}$

Solve.
$$\frac{t+9}{5} = -4$$



Solve.

8x - 4 = -2x + 16







China has a maximum of 600 megabytes of data usage each month on her cell phone. She has used 252 megabytes this month. Each message she sends is 4 megabytes.

About how many more messages can China send this month?

A.At least 87 B.At most 87 C.At least 40 D.At most 40





What is the solution to the equation? 3(4 - x) = 4(x + 10)



Evaluate

1. Simplify the top and

bottom separately

2. Divide top by the bottom

$$\frac{9 \cdot 4 + 4}{-5[20 \div 2 - (9 - 3)]}$$

Bottom:

Top:



Jonny carried a 3 oz bag containing some marbles weighing 8.3 oz each. Linda carried a 1 oz bag containing the same number of marbles weighing 10.5 oz each. Let m represent the number of marbles each child carried.

Which simplified expression represents the total weight Jonny and Linda carried?

A.18.8m + 4m B.18.8m + 4 C.9.3m - 13.5m D.13.8m + 9.3m