

a g c n d a

Warm-Up (see right)

Notes (p. 7&8)

HW: Practice #1-7

reminders

Mathbook info & Calculator form due FRIDAY

Esscntia1

Question

How do I translate verbal sentences into expressions and equations?

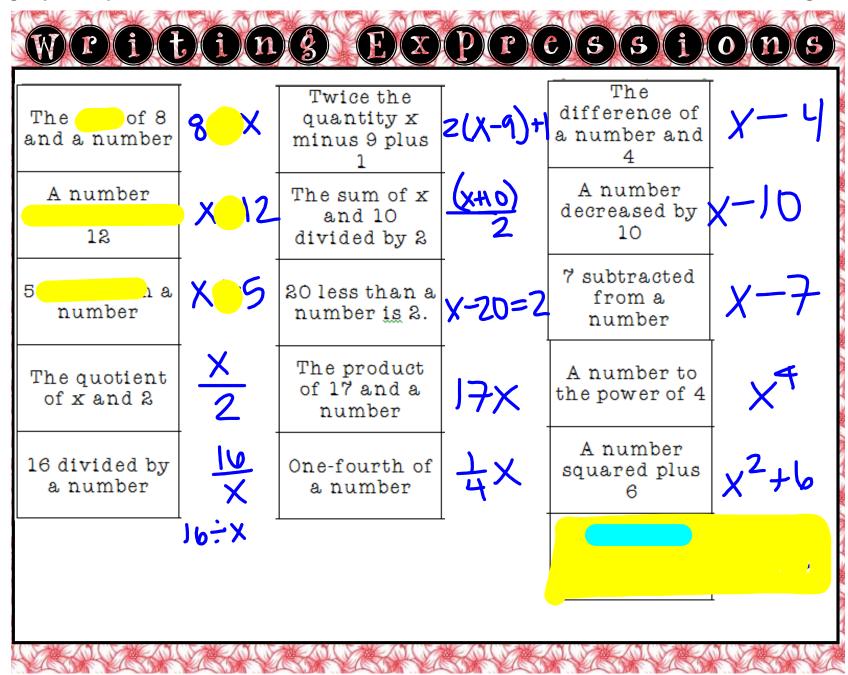
warm-up

0.0:0.0 0.7

Pick up all the papers at the front and grab your teams' supply bin!!

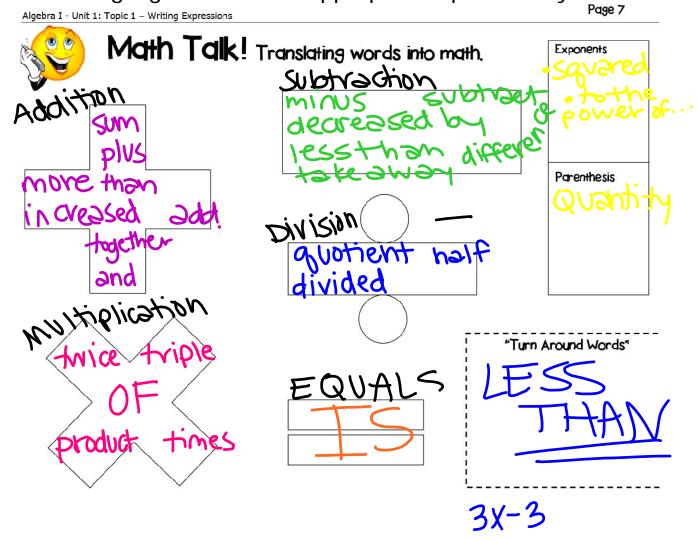
Turn in any <u>signed</u> forms to the correct tray.

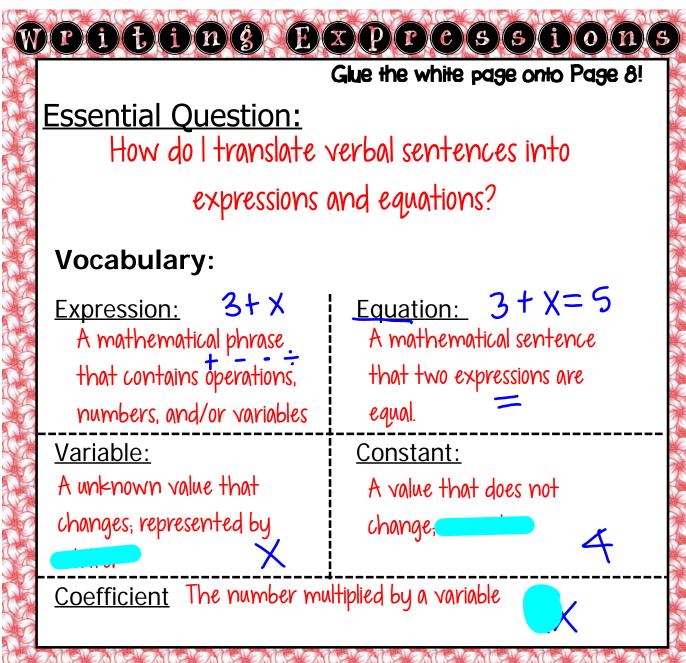
Using the matching cards at your table, match the verbal expression with the correct algebraic expression. (HINT: Look at the numbers!!)



## Writing Expressions

Glue the yellow sheet onto page 7! Write the words we highlighted into the appropriate operation symbol.





### **Essential Question:**

Page 8!

How do I translate verbal sentences into expressions and equations?

Write a verbal description for each algebraic expression or equation given below:

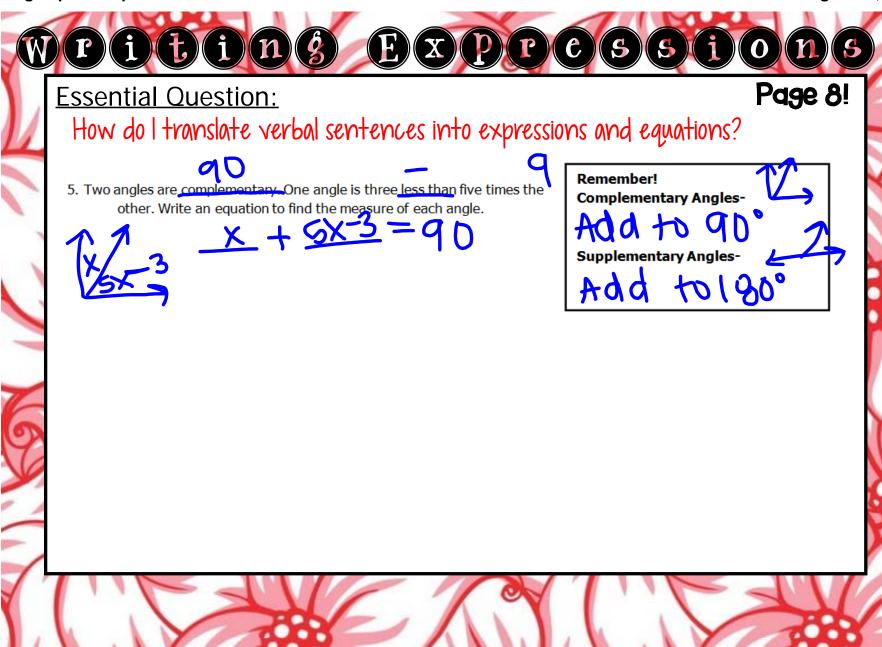
1. 
$$\frac{x^3}{5}$$

$$\frac{1}{2}n + 4$$

3. 
$$4m-5n=-6$$

4. 
$$3x^2 + 5y$$

1.  $\frac{x^3}{5}$  2.  $\frac{1}{2}n+4$  10 3. 4m-5n=-6The quotient of a number cubed and 5.



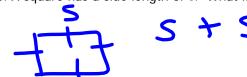


### **Essential Question:**

Page 8!

How do I translate verbal sentences into expressions and equations?

6. A square has a side length of s. What is its perimeter?



5+5+5+5 = 45

7. Write an algebraic expression for the verbal expression. Three plus the quotient of 7 and a number subtracted from two times the same number.

$$2\times - \left(3+\frac{7}{2}\right)$$

8. Lara wants to buy a Rock Band game that is on sale for 35% off the regular price. The regular price of the game is *p* dollars. Which expression represents the sale price of the game?

A. 
$$p = 0.35p$$
 C.  $p = 35p$   
B.  $p + 0.35p$  0.35 $p$ 

# Check your answers at @MskMath twitter HW will be checked tomorrow at the BEGINNING of class!

Practice – Writing Expressions and Equations		
Nar	me Pd	
1.	Raquel earns \$150 per week at Forever 21 plus 15% commission on her total sales.	
	A. Write an expression to represent Raquel's commission on $\boldsymbol{x}$ total sales.	
	B. Write an equation to find her total sales if her total earnings for the last two weeks were	\$500.
	Angelina rents a bounce house for a birthday party for a delivery fee of \$100 plus a rental \$20 per hour.	fee of
	A. Write an expression for the cost of renting the bounce house for $\boldsymbol{x}_{r}$ the number of hou	rs.
	B. Write an equation if the total charge was \$220.	
	Nate has written 4 paragraphs of an essay for his English class so far. He can write a para every $\frac{2}{3}$ of an hour. Write an expression for the number of paragraphs in Nate's essay after hours.	
	Two angles are complementary. The larger angle is 6 more than twice the smaller angle. We equation to find the measure of each angle. ( Hint: Draw a picture)	/rite an
	Brock is six feet tall. He climbs a ladder to paint some trim on his house. For each rung the climbs, Brock is 1.2 feet higher above the ground. Which expression could you use to calculatance from the top of Brock's head to the ground if $r$ represents the number of ladder number climbed?	ulate the
	A 1.2r + 6 B 1.2r C r + 6 D 6r + 1.2	
	An objects weight on Mars is 38% of it's weight on Earth. If an object weighs $\rho$ , pounds or write an expression for its weight on Mars.	ı Earth,
_	X-	
7.	Which situation is best represented by the algebraic expression $200 - \frac{X}{4}$ ?  A Renee earned \$200 creating a website and a 20% advance on the next website	cha
	creates for the same company.	5110
	C Skip is watching his calorie intake. He ate a 200 calorie breakfast bar and share	ed a pizz
	with 3 of his friends.  D There is a \$200 set up fee for making T-shirts and a fourth of the cost is split be anyone ordering a shirt.	tween

## Writing Expressions

Essential Question: How do I translate verbal sentences into expressions and equations?

Make sure you SHOWED YOUR WORK by highlighting/underlining your important words! NO WORK = NO CREDIT = NO KIDDING!

1. A. 
$$150 + 0.15x$$
 B.  $300 + 0.15x = 500$ 

2. A. 
$$100 + 20x$$
 B.  $100 + 20x = 220$ 

$$3.4 + (2/3) h$$

4. x + 6 + 2x = 90 BONUS: how could you simplify this equation?

5. A

6. 0.38p

7.C