



**Math**

**Monday 1.30.2017**

Today, we are going to work on some practice problems identifying properties.

Name: \_\_\_\_\_

Find each product #1-4:

1)  $2(-3)$

2)  $-4(3)$

3)  $-5(-2)$

Write each subtraction expression as an addition expression and solve #5-8:

4)  $-4(6)$

5)  $5-7$

6)  $6-10$

Find each sum #9-12:

7)  $-5-9$

8)  $11-10$

9)  $6+(-9)$

10)  $-8+4$

11)  $4+(-4)$

12)  $7+(-10)$

Write an algebraic expression for each verbal expression#13-16:

13) five more than twice a number      14) the difference of a number and 15

15) three less than a number

16) the quotient of a number and 10

- 1) Write an equation using three integers that is an example of the Distributive Property.
- 2) Find the Error: Julia and Catelyn are using the distributive property to simplify  $3(x+2)$ . Who is correct? Explain your reasoning in the space provided.

Julia  
 $3(x+2) = 3x+2$

Catelyn  
 $3(x+2) = 3x+6$

Use the distributive property to write each expression as an equivalent expression.  
Then evaluate it.

3)  $5(7+8)$

4)  $2(9+1)$

5)  $(2+4)6$

6)  $4(x+3)$

7)  $(n+2)3$

8)  $8(y-2)$

9)  $-6(x-5)$

10) Suppose you work in a grocery store 4 hours on Friday and 5 hours on Saturday.  
You earn \$6.25 per hour.

A) Write two different expressions to find your wages.

B) Find the total wages for that weekend.

Use the Distributive property to write each expression as an equivalent expression.  
Then evaluate it.

12)  $2(6+1)$

13)  $5(7+3)$

14)  $(4+6)9$

15)  $(4+3)3$

16)  $(9+2)4$

17)  $(8+8)2$

18)  $7(3-2)$

19)  $6(8-5)$

20)  $-5(8-4)$

21)  $-3(9-2)$

22)  $(8-4)(-2)$

23)  $(10-3)(-5)$

24) One movie ticket costs \$7, and one small bag of popcorn costs \$3. Write two equivalent expressions for the total cost of four movie tickets and four bags of popcorn, then find the cost. Show your work!

25) A volleyball uniform costs \$15 for the shirt, \$10 for the pants, and \$8 for the socks. Write two equivalent expressions for the total cost of 12 uniforms. Then find the cost. Show your work.



Use the distributive property to write each expression as an equivalent algebraic expression.

26)  $2(x+3)$

27)  $5(y+6)$

28)  $3(n+1)$

29)  $7(y+8)$

30)  $(x+3)4$

31)  $(y+2)10$

32)  $(3+y)6$

33)  $(2+x)5$

34)  $3(x-2)$

35)  $9(m-2)$

36)  $8(z-3)$

37)  $15(s-3)$

$$38) (r-5)^6$$

$$39) (x-3)^{12}$$

$$40) (t-4)^5$$

$$41) (w-10)^2$$

$$42) -2(z+4)$$

$$43) -5(a+10)$$

$$44) -2(x-7)$$

$$45) -5(w-8)$$

$$46) (y-4)(-2)$$

$$47) (a-6)(-5)$$

$$48) 2(x+y)$$

$$49) 3(a+b)$$



**Math**

**Tuesday 1.31.2017**


You'll need a post it note.

On the next slide is a series of questions...write your name, and your answers on the post-it.

In the algebraic expression

$$2x+3$$

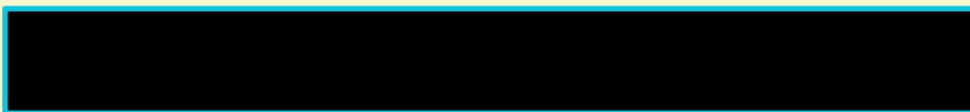
Which term is the constant?



## Standard 6.EE.2a

Write expressions that record operations with numbers and with letters standing for numbers. eg: express the calculation "subtract  $y$  from 5" as  $5 - y$ .

The next step we need to practice is translating word problems into algebraic expressions so that we can solve them. We are somewhat familiar with these now...





The next step is to plug in a value for the variable and solve it.

Solve  $X+15$  when  $x = 5$

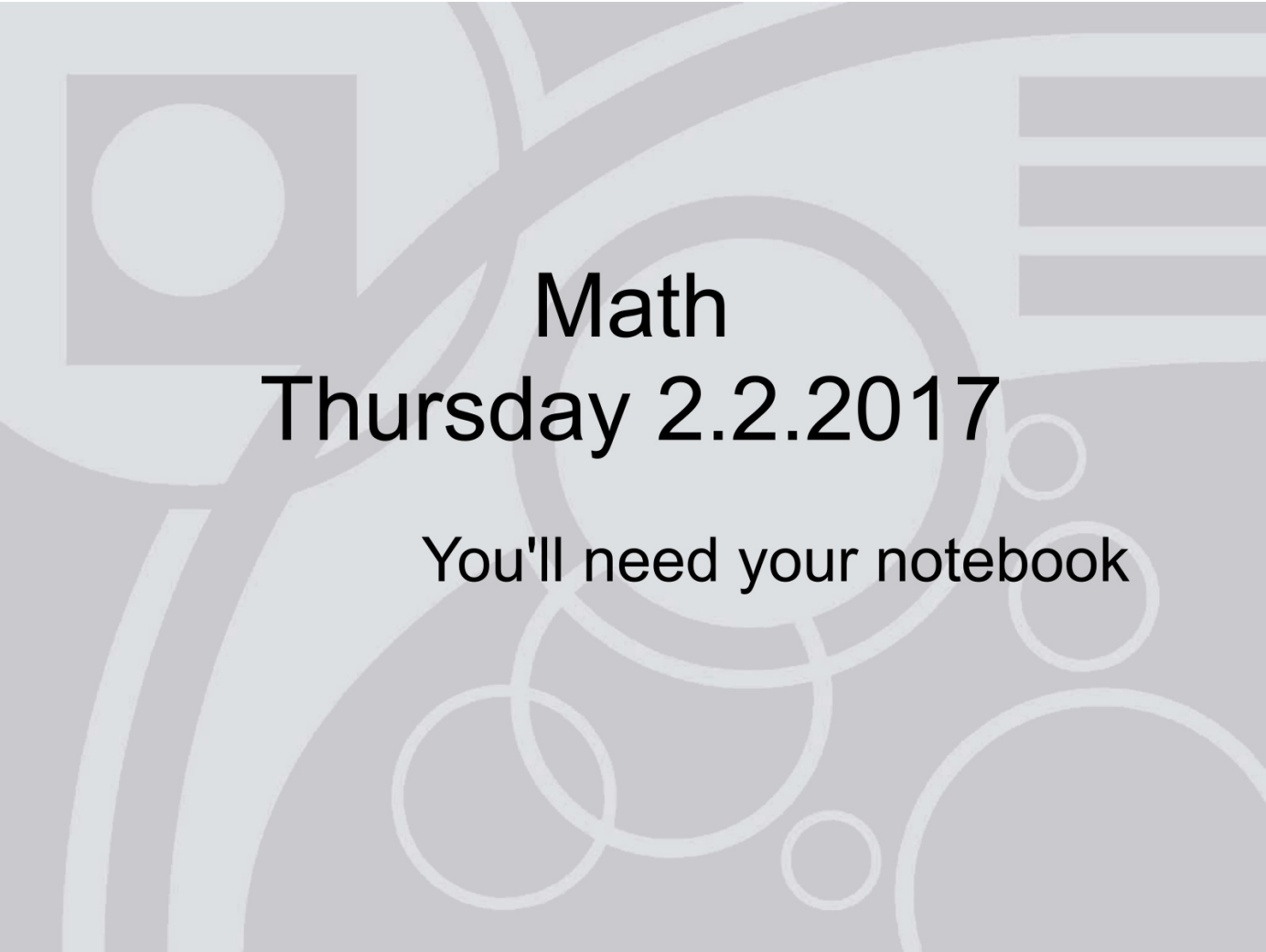
Solve  $5x$  when  $x = 25$



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Questions?

As per usual, in a moment you'll have time to practice on your own.




**Math**  
**Thursday 2.2.2017**

You'll need your notebook



## Standard 6.EE.3

Apply the distributive property to the expression  $24x + 18y$  to produce the equivalent expression  $6(4x + 3y)$



You're used to using the distributive process this way(copy this down):

$$2(3x+1)$$

$$3(x+y)$$

But did you know that you can work backwards too?





Try these ones on your own.

$$16+32x$$

$$50x+25y$$

$$45x+27$$

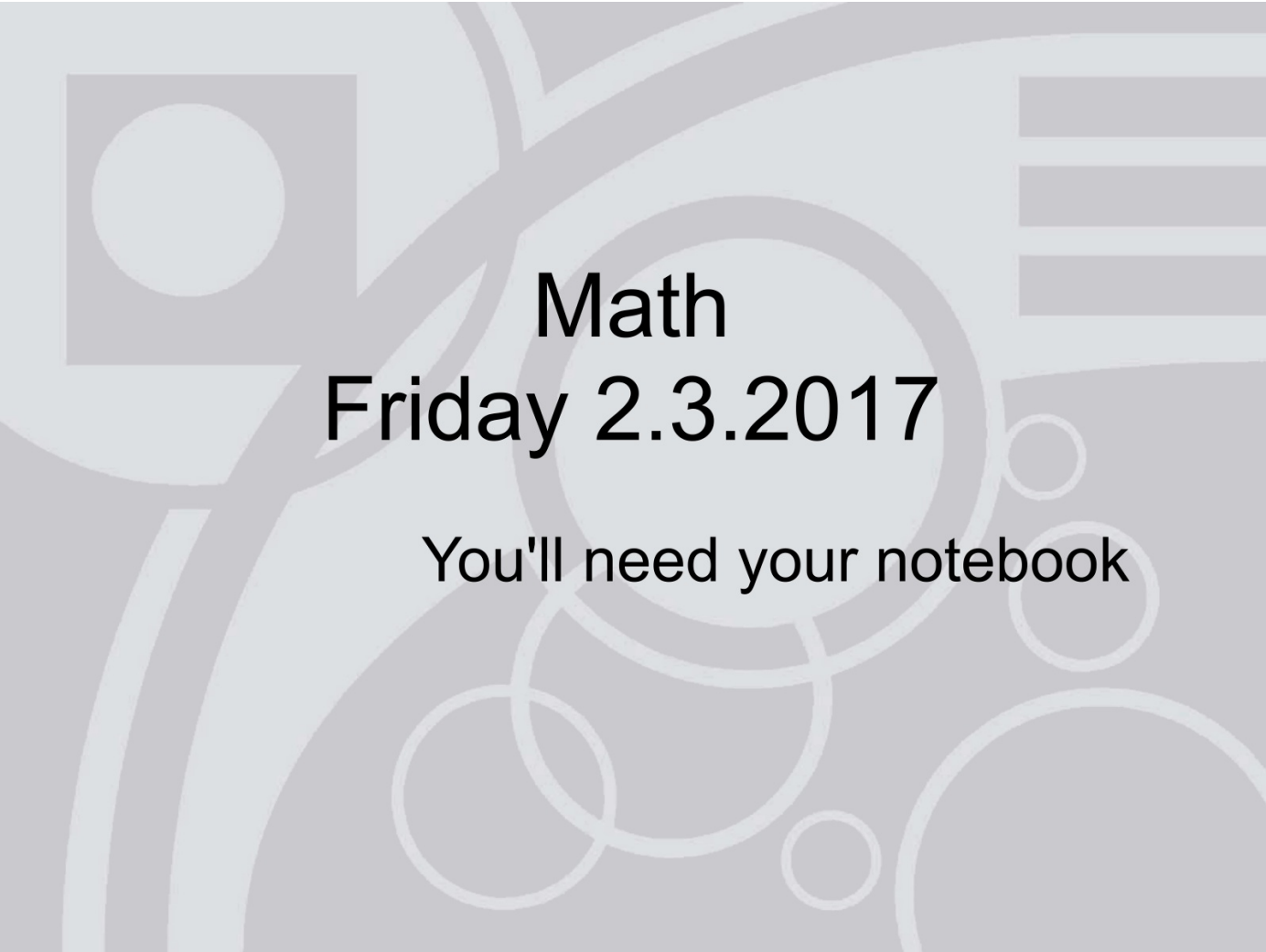
$$75x+150y$$

$$63y+18x$$

$$32+40x$$

$$225x+25y$$

$$80x+60y$$



**Math**  
**Friday 2.3.2017**

You'll need your notebook

Today, you'll have the opportunity to work on problems involving properties on your own.

We will practice a few together first!