

# 4.3 Distributive Property

## NOTES

MATH 7

Write your questions here!



**Distributive Property:**

Order of Operations

$$3(5 + 2)$$

Distributive Property

$$3(5 + 2)$$

**Distribute**

$$6(2x + 5)$$

$$2(x - 3)$$

$$-3(2x + 7)$$

**Distribute and Combine Like Terms**

$$6(2x + 5) + 3$$

$$4 + 3(2x - 1)$$

$$-2(2x + 5) - 3x$$

**BE CAREFUL!!!!**

$$8 - 3(x + 4)$$

$$8 - (2x - 7)$$

**Fractions are cool**

$$\frac{1}{3}(6x + 15)$$

**SUMMARY:**

Now, summarize your notes here!



Simplify each expression by using the distributive property.

1.  $4(2x + 3)$

2.  $5(m + 5)$

3.  $-4(3p - 2)$

4.  $5(2r - 3)$

5.  $6(v + 1)$

6.  $-2(3 + x)$

7.  $-(5x + 2)$

8.  $\frac{1}{2}(4b - 8)$

9.  $\frac{2}{3}(6 + 3x)$

Simplify each expression by using the distributive property combining like terms.

10.  $6y + 2(y + 1)$

11.  $2(4a - 1) + a$

12.  $6r - 2(r + 4)$

13.  $3(m + 5) - 10$

14.  $2(3w - 5) + 3w$

15.  $5 - 2(4x + 3)$

Simplify each expression by using the distributive property combining like terms.

16.  $y + 3(2y + 1)$

17.  $5 + 2(4x - 1)$

18.  $8 - 2(x - 4)$

Mr. Brust simplified the following expressions incorrectly. Help a math teacher out! Circle his mistake and show the correct answer.

19.  $8 + 2(3p + 1)$

$10(3p + 1)$   
 $30p + 10$

20.  $3d - 2(d - 4)$

$3d - 2d - 8$   
 $1d - 8$

## 4.3 Distributive Property

## WRAP UP

Simplify

1.  $-3(2m - 5)$

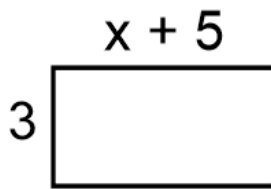
2.  $3 + 2(b - 4)$

3. Which expression is equivalent to  $2m - (8 - 4m) + 5$  ? (SHOW YOUR WORK!)

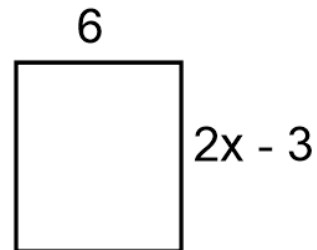
- (A)  $6m + 13$
- (B)  $-2m - 3$
- (C)  $6m - 3$
- (D)  $-2m + 13$

4. Write an algebraic expression to represent the area of the following given  $Area = bh$ .

A)



B)



**EXIT TICKET –**

Select ALL of the following expressions correctly model the situation?

Twice the sum of a number and six increased by four.

- (A)  $2n + 6 + 4$
- (B)  $2(n + 6) + 4$
- (C)  $2n + 10$
- (D)  $2n + 16$