

**Tuesday
Oct. 20**

Warm Up

Page 52

Write the definition for each VOCABULARY term:

Variable

Constant

Expression

Equation

Like Terms

Distribute

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(H)

Warm Up

Page 52

Write the definition for each VOCABULARY term:

Variable
Constant
Expression
Equation
Like Terms
Distribute

Evaluate the expression.

1. $5y - 1$, for $y = 3$ 2. $p \div 7 + p$, $p = 14$

3. $5a - 3b + 5$ 4. $3x^2 + 2y - 50$
(for $a = 4$ & $b = 3$) (for $x = 5$ & $y = 10$)

Definition of
terms

Like Terms are Terms that have the same
variable and the same **degree**
meaning the same letter with the
same exponent

How many of you do laundry??



Identify like terms.

1. $3a$ b^2 b^3 $4b^2$ 4 $5a$

2. x x^4 $4x$ $4x^2$ $4x^4$ $3x^2$

3. $6m$ $6m^2$ n^2 $2n$ 2 $4m$ $5n$

4. $12s$ $7s^4$ $9s$ s^2 5 $5s^4$ 2

Terms that have the same variable and the same degree

Containing the same letter in the same exponent

You can add and subtract LIKE TERMS

1. for 'minus' - same-change-change

2. use circles, squares, triangles, lines or colored hi-liters to group like terms

3. Use integer rules to combine

Combine like terms.

5. $2p + 22q^2 - p$

7. $n^4 + n^3 + 3n - n - n^3$

9. $32m^2 + 14n^2 - 12m^2 + 5n -$

6. $x^2 + 3x^2 - 4^2$

8. $4a + 4b + 2 - 2a + 5b - 1$

10. $2h^2 + 3g - 2h^2 + 2^2 - 3 + 4g$

EXIT TICKET

Simplify each expression by Combining Like Terms.

$$3a + 5a$$

$$4a - 5a + 6a$$

$$6b - 5 - 7b$$

$$-2b - 8 - b + 9$$

**Wednesday
Oct. 21**

Warm Up

Page 54

1) What would be the first step in simplifying the expression?

$$2x - 3(5x - 8)$$

2) Write the equivalent expression for $(5x + 6y - 3z) + (3x - 8y + z)$.

3) Chuck is 6 years younger than Pete. Pete is 3 times older than Roy who is five years old. How old is Chuck?

DISTRIBUTIVE PROPERTY

Page 47

Definition

Distributive Property

If I multiply a number by a sum, it is the same as multiplying that number by each number in the sum and adding their products together.

Example: $2(4 + 6)$

$$\begin{array}{l} \blacksquare = \square \\ \blacksquare = \square \\ \blacksquare = \square \end{array}$$

Example: $2(x + 6)$

$$\begin{array}{l} \blacksquare = \square \\ \blacksquare = \square \end{array}$$

Additional
Examples

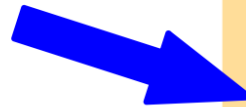
DISTRIBUTIVE PROPERTY

Page 47

Example: $2(3 - p)$

$$2(\underline{3 - p}) = 2(3) - 2(p)$$

$$2(3 - p) = \mathbf{6 - 2p}$$



SIDE NOTE:

$2(3 - p)$
is the same as
 $(3 - p) \bullet 2$
or
 $(3 - p)^2$

Example: $x(y + 2y)$

$$x(\underline{y + 2y}) = x(y) + x(2y)$$

$$x(y + 2y) = \mathbf{xy + 2xy}$$

$$x(y + 2y) = \mathbf{3xy}$$

Example: $3a - 2(3 + a)$

$$\begin{aligned} 3a + -2(3 + a) &= 3a + -2(3) + -2(a) \\ &= \boxed{3a} + -6 + \boxed{-2a} \\ &= \end{aligned}$$



**Same-Change-Change
for
SUBTRACTION**

Copy the given expression and chart. Choose the correct answer. in complete sentences explain why your selection is correct and why each of the others are not.

$$4(2x + 10y)$$

$8(x + 5y)$	$8x + 10y$
$8(x + 10y)$	$8x + 14y$

WORD PROBLEM PRACTICE

Sophie caught twice as many fish as her dad. If her dad caught F fish, how many did Sophie catch?

What is the simplified form of $4(2x - 5y) - 3x$?

Jane's age is 7 years greater than double Tom's age. If Tom's age is n years, what is the sum of both of their ages?

Thursday
Oct. 22

Warm Up

Please get a sheet of paper from the back - white or colored paper is fine.

Read the following problem and write it down on your paper, next complete the task listed below for your block, then solve the problem.

Hannah eats one-fourth of a pizza. Damian eats two-thirds of the same pizza. How much of the pizza is left?

BLOCK 1: Write a script for the problem, explaining each step in detail. After you solve the problem, explain possible errors that students could make.

BLOCK 2: Create a frayer model for the following term: equivalent fractions, and then solve the problem.

BLOCK 3 & 5: Star important information, circle each step, underline the question, then rewrite the problem in detail in your own words, and solve.