

# August 29

You Need:

- 1.) Your Binder
- 2.) Pencil
- 3.) Calculator

Agenda:

- 1.) POD
- 2.) Section 1-1

POD

TOTAL → +  
DIFFERENCE / more -

The Buffalo Wildcats played the New York Bulldogs in a football game. The Wildcats scored 42 points. The Bulldogs scored 28 points. How many more points did the Wildcats score than the Bulldogs?

$$42 - 28 = 14$$

$$42 + 28 = 70$$

# Math IV Lesson 1

## Algebraic Expressions

- an expression is a combination of numbers and variables (letters)
  - There is no equal symbol
- Variable: a letter or symbol that can be replaced by a number
  - For Example -->  $7y$        $5x - 9$

Example Circle the variables in each sentence

a.)  $3 + y$

b.)  $7x + 6$

c.)  $3 + 4b$

d.)  $5n + 50$

## Example

a.) if  $a = 3$  find  $a + 6$

$$\begin{array}{r} a + 6 \\ 3 + 6 \\ \hline 9 \end{array}$$

b.) if  $x = 10$  find  $x - 4$

$$\begin{array}{r} x - 4 \\ 10 - 4 \\ \hline 6 \end{array}$$

c.) If  $a = 3$  and  $b = 5$  find  $A + b$

$$\begin{array}{r} A + b \\ 3 + 5 \\ \hline 8 \end{array}$$

d.) If  $a = 3$  and  $b = 5$  find  $b - a$

$$\begin{array}{r} b - a \\ 5 - 3 \\ \hline 2 \end{array}$$

a.) If  $a = 3$  and  $b = 5$  find  $a - b$

$$\begin{array}{r} a - b \\ 3 - 5 \\ \hline -2 \end{array}$$

b.) If  $z = 6$  find  $z - 10$

$$\begin{array}{r} z - 10 \\ 6 - 10 \\ \hline -4 \end{array}$$

Evaluate each expression when  $x = 2$ ,  $y = 8$ , and  $z = 10$

1.  $x + y$

$$\begin{array}{r} 2+8 \\ \hline 10 \end{array}$$

2.  $25 - y$

$$\begin{array}{r} 25-8 \\ \hline 17 \end{array}$$

3.  ~~$25 - y$~~

4.  $x + y + z$

$$\begin{array}{r} 2+8+10 \\ \hline 20 \end{array}$$

5.  $x + y - z$

$$\begin{array}{r} 2+8-10 \\ \hline 0 \end{array}$$

6.  $33 + y$

$$\begin{array}{r} 33+8 \\ \hline 41 \end{array}$$

7.  $y - 7 + x$

$$\begin{array}{r} 8-7+2 \\ \hline 3 \end{array}$$

8.  $z - 8$

$$\begin{array}{r} 10-8 \\ \hline 2 \end{array}$$

9.  $y + 3 - 2$

$$\begin{array}{r} 8+3-2 \\ \hline 9 \end{array}$$

10.  $z + 15 - y$

$$\begin{array}{r} 10+15-8 \\ \hline 17 \end{array}$$

11.  $18 - y + 10$

$$\begin{array}{r} 18-8+10 \\ \hline 20 \end{array}$$

12.  $20 - z + 5$

$$\begin{array}{r} 20-10+5 \\ \hline 15 \end{array}$$

Evaluate each expression when  $a = 5$ ,  $b = 7$ ,  $c = 12$ , and  $d = 4$

13.  $a + c + d$

$$\begin{array}{r} 5+12+4 \\ \hline =21 \end{array}$$

14.  $8 + d$

$$8+4=12$$

15.  $a + b - 8$

$$\begin{array}{r} 5+7-8 \\ \hline 4 \end{array}$$

16.  $a + 10$

$$5+10=15$$

17.  $b + c + d$

$$\begin{array}{r} 7+12+4 \\ \hline 23 \end{array}$$

18.  $a + b - c$

$$\begin{array}{r} 5+7-12 \\ \hline 0 \end{array}$$

19.  $a + c - d$

20.  $a + d - c$

21.  $c + d - a - b$

August 30, 2016

You Need:

- 1.) Your Binder
- 2.) Pencil
- 3.) Calculator

Agenda:

- 1.) POD
- 2.) Review Section 1-1
- 3.) WS 1-1a

POD

John has 7 five dollar bills. He wants to buy a baseball bat that costs \$38. How much more money does he need?

$$7 \times 5 = 35$$

$$38 - 35 = 3$$

A letter that goes in for  
a number.

VARIABLE

# Worksheet 1-1 a

Name \_\_\_\_\_

Evaluate each expression when  $a = 12$   $b = 5$   $c = 6$

1.)  $a + b + c$

$$\begin{array}{r} 12 + 5 + 6 \\ \hline 23 \end{array}$$

2.)  $a + b - c$

$$\begin{array}{r} 12 + 5 - 6 \\ \hline 11 \end{array}$$

3.)  $a - 6$

$$\begin{array}{r} 12 - 6 \\ \hline 6 \end{array}$$

4.)  $a - b - c$

$$\begin{array}{r} 12 - 5 - 6 \\ \hline 1 \end{array}$$

5.)  $a + b$

$$\begin{array}{r} 12 + 5 \\ \hline 17 \end{array}$$

6.)  $a + c - b$

$$\begin{array}{r} 12 + 6 - 5 \\ \hline 13 \end{array}$$

7.)  $a + 8 - b$

$$\begin{array}{r} 12 + 8 - 5 = \\ \hline 15 \end{array}$$

8.)  $b - a$

$$\begin{array}{r} 5 - 12 \\ \hline \end{array}$$

9.)  $b + c - a$

$$\begin{array}{r} 5 + 6 - 12 \\ \hline -1 \end{array}$$

Evaluate each expression when  $x = 6$ ,  $y = 8$ ,  $z = 4$

10.)  $11 + z$

$$11 + 4 = 15$$

11.)  $y - 7$

$$\begin{array}{r} 8 - 7 \\ \hline \end{array}$$

12.)  $y + 2 + z$

$$\begin{array}{r} 8 + 2 + 4 \\ \hline 14 \end{array}$$

13.)  $y - z$

$$\begin{array}{r} 8 - 4 \\ \hline 4 \end{array}$$

14.)  $x + 4 + x$

$$\begin{array}{r} 6 + 4 + 6 \\ \hline 16 \end{array}$$

15.)  $z + z + 1$

$$\begin{array}{r} 4 + 4 + 1 \\ \hline 9 \end{array}$$