

#2 Reflection Journal - Due: _____

Name: _____ Date: _____

Numerical Expression Practice

Vocabulary Practice

Match the vocabulary word with the example. Place the letter of the correct example next to the word that describes that example.

1. equation ____	A. $(6 + 4) \times 5$
2. expression ____	B. $(6 + 4) \times 5 = 50$
3. inequality ____	C. 1. Parenthesis 2. Exponents 3. Multiplication/Division 4. Addition/Subtraction
4. order of operations ____	D. $70 + 5 > 33 - 2$
5. exponent ____	E. $2^3 = 2 \times 2 \times 2 = 8$

PEMDAS is an acronym that helps you remember the order of operations. Write the word that matches each letter below.

multiplication	division	addition	subtraction	exponents	parentheses
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P		First
E		Second
M		Third, Whichever comes first right to left.
D		
A		Fourth, whichever comes first right to left.
S		

Evaluate the **expressions** below with order of operations:

1. Evaluate expressions in **parentheses**.
2. Solve all **exponents**.
3. Complete **multiplication/division** left to right.
4. Complete **addition/subtraction** left to right.

$$8 \times (6 + 4) \div 2^2$$

$$9 + (6 - 4) \times 2^3$$

Write **four equations** that equal 36. Use at least **two operations** in each equation. (Remember the operations are multiplication, division, subtraction, and addition, and also remember that equations have equal signs).

Examples:

- $(4 + 2) \times 6 = 36$ (the two operations here are + and X)
- $20 \times 2 - 4 = 36$

1.	
2.	
3.	
4.	

Write **three inequalities** that compare your age to the ages of friends or family members. Remember that inequalities use $>$, $<$ signs.

Examples:

- $11 > 5$
- $11 < 21$

1.	
2.	
3.	

Complete each sentence with a word from the word bank below.

composite number	odd	even	factors	prime	square
one-digit	expression	equation	inequality	two-digit	factor pair

1. Numbers ending in 0,2,4,6,8, and can be divided into two even groups are _____ numbers.
2. Numbers ending in 1,3,5,7,9, and cannot be divided into two even groups are _____ numbers.
3. A number that only has one factor pair: one and itself such as 7 is a _____ number.
4. A number with more than one factor pair such as 8 is _____.
5. A number that makes a square array and has a factor pair with two number that are the same is a _____ number.
6. A number made up of one digit is a _____ number.
7. A number made with two-digits is a _____ number.
8. Two numbers that you multiply to make a specific number are a _____.
9. The numbers you multiply to make a certain number are _____.
10. Numbers, symbols and operations (such as + and \times) grouped together that show a value is an _____. Example: 2×3 .
11. An _____ says that two things are equal. It will have an equals sign "=" like this.
12. An _____ says that two values are not equal. $a \neq b$ says that a is not equal to b, $a < b$ says that a is less than b, $a > b$ says that a is greater than b.

9/24 Complete the number card below - you may use a calculator to complete this.

Multiples									
<div style="font-size: 48px; font-weight: bold; border: 2px solid black; padding: 10px; display: inline-block;">32</div>		<div style="border: 2px solid black; padding: 20px;"> <p style="text-align: center;">Factor Pairs and Arrays</p> <p style="text-align: center;"><i>Write the factor pair in the array</i></p> </div>							
word form:									
expanded form:									
<p>highlight the correct descriptions:</p> <p>Even or Odd</p> <p>Composite or Prime</p> <p>Square</p> <p>Perfect</p> <p>1-digit or 2-digit or 3-digit</p>									

Homework Score: Color in the box below that shows how you did with your homework this week.

Category	<p>Exceeds Expectations</p> <p><i>I completed all my work with care and precision and the bonus too.</i></p>	<p>Meets Expectations</p> <p><i>I completed all my work with care and precision.</i></p>	<p>Progressing Towards Expectations</p> <p><i>I completed some of my work.</i></p>
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Bonus: Solve the equations below. Write your answer on the line provided. Remember to correctly apply order of operations.

a. $(6 \times 8) \div (10 + 2) = \underline{\hspace{2cm}}$

b. $40 - 22 - 16 \div 8 - 13 = \underline{\hspace{2cm}}$

c. $2 \times (4 \times 3^2) \div 4 = \underline{\hspace{2cm}}$

d. $72 \div 12 \times 8 \div 16 = \underline{\hspace{2cm}}$

e. $[(3 \times 17) + 9] + (10 \times 4) = \underline{\hspace{2cm}}$

Circle the correct rule for each table below. Circle the best answer, A, B, C or D.

Input (Y)	10	6	7	4	9
Output	40	24	28	16	36

A. $Y \times 4$

B. $Y + 4$

C. $Y \times 4 + 11$

D. $Y \times 8 + 9$

Input (Z)	8	7	10	6	2
Output	15	14	17	13	9

A. $Z \times 7 + 9$

B. $Z \times 7 - 11$

C. $Z + 7$

D. $Z \times 7$

Complete each table.

$y = 7x$	
x	y
7	
4	
8	
5	
6	

$y = x + 8$	
x	y
9	
5	
1	
2	
4	

Make up your own algebraic tables.