

Station Review for Ch. 5 Test
(Algebraic Expressions)

Name _____
Block _____ Date _____

Station 1 - Vocabulary

- *Study (Read through the definitions and examples in the folder)
- *Decide if each statement is True (T) or False(F)
- *If false, how can you make it true?

- _____ 1) In the expression $6x + 3 + 4x + -7$
the pair of terms $6x$ and $4x$ are called like terms.
- _____ 2) $9 + x = x + 9$ is called the associative property.
- _____ 3) $(a + 2) + 0 = a + 2$ is an example of the identity property of addition.
- _____ 4) In the expression $7x + 2$, 7 is called a constant.
- _____ 5) In the expression $8x - 2 + 7x + 9$
the pair of terms -2 and 9 are called like terms.
- _____ 6) $2(9) = 9(2)$ is an example of the commutative property.
- _____ 7) The expression $7x - 2y + 8 + x$ has 4 terms.
- _____ 8) The identity property of multiplication says that $8(0) = 0$
- _____ 9) The distributive property says that $9(x + 2) = 9x + 2$
- _____ 10) $-x$ has an invisible coefficient of -1

Station 2 - Distributive Property for Mental Math

- * Study the examples in the folder
- * Show clearly how to do these problems using distributive property.

1) Shawn buys 6 packs of gum. Each pack costs \$1.07 Find the total cost.

2) $4(6\frac{1}{2})$

3) $8(2.30)$

Station 3 - GCF and Factoring and Sequences

Read and Study the examples in the folder:

Find the GCF of each of the following:

1) $4x$ and $6xy$

2) ab and $2a$ _____

3) $18b^2c$ and $6abc$ _____

Factor each of these completely.

4) $10ab - 4a^2b$ _____

5) $5x + 10y$ _____

6) $9x^2 - 3x$ _____

7) 12, 15, 18, ____, ____

A) State the rule for this pattern.

B) Find the next two terms.

8) If the pattern continues, what algebraic expression can be used to find the plant's height after n months and after 1000 months.

Month	Height(in)
1	5
2	10
3	15
n	
1000	

Station 4 - Evaluate expressions

Read and Study the examples on the folder. Then try these examples.

Evaluate each of these expressions IF $a = -10$

$$b = 4$$

$$c = -3$$

1) $b^2 - 3a$

2) $ac - b$

3) $c - a + b$

Solve these problems in TWO different ways. Start work with the original problem.

5) $-8(-3 + 5)$

6) $4(-7 - 2)$

Order of Operations | Distributive Property

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Order of Operations | Distributive Property

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Station # 5 - Simplify Expressions

Study the examples in the folder. Then try these problems.

Simplify each expression using steps discussed in class.

1) $-3(5x - 4)$

2) $2(x - 7) - 4(-3x + 2)$

3) $10 - (4x - 3)$

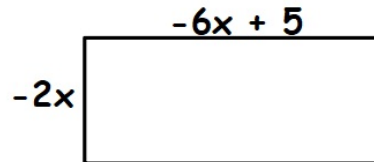
4) $-6x - 4y - x + 8 + y$

5) $(2a - 4b) + 5(-6a - b)$

Station # 6 - Algebraic Expressions from Words and Pictures

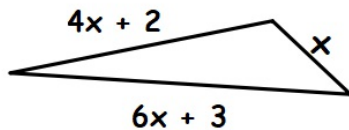
Study the examples in the folder. Then try these examples.

1) Find the perimeter.



3) A taxi charges \$4 and then \$2 for each additional mile. Write a simplified algebraic expression for the total cost of a ride that is m miles.

2) Find the perimeter.



4) Tom buys 12 pencils that cost x dollars each and 4 pens that cost y dollars each. Write a simplified algebraic expression for the total cost of the pencils and pens.