Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 7

Chapter 4 – Expressions and Equations Bell Ringer and Notes #1



**Bell Ringer**

Show what you know by simplifying the following.

$$-20 ÷ 4 - 2^{2}+ (9+2)^{2}$$

$$\left|-24\right|-\left|-16+12\right|+\left(-5\right)^{2}$$

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Chapter 4 – Expressions and Equations Notes #1

Chapter 4 – Expressions and Equations

Evaluating (Solving) Algebraic Expressions

* An **expression** does not have an equal sign**.**
* **Evaluate** is another way to say solve.
	+ Plug-in (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) the values for the variables
	+ Simplify (\_\_\_\_\_\_\_\_\_\_\_\_\_\_) the problem using…
		- Order of Operations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Rules for Integers
			* Addition: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* Subtraction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* Multiplication: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* Division: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Knowledge of rational (\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_)

Examples: Evaluate the expression to find the numerical value.

Use the following values for the variables:

a = -8

b = 6

d = 3

x = ½

z = -1

1. 2ad + 8
2. 3b – 6z
3. 5x – 3
4. 2a – 10x
5. $\frac{-8x}{\frac{2}{3}}$
6. (-2a + 3b) + -10
7. 4x - 2a + z



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Chapter 4 – Expressions and Equations Worksheet #1

Evaluate the expression to find the numerical value.

Use the following values for the variables:

a = -3

b = 5

d = -6

x = -1

y = ¼

z = -4

1. 

1. 4y + z
2. a + 2d – 7b
3. 7 + 4(d – 8)
4. (b + 6) – (-8 + y)
5. (z – 2)(z + 5)
6. b – (3a)
7. (4x + 3) + (-2)(-3)