



Elkins School District
Alternate Method of Instruction (AMI)



AMI Day # 1

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| School Name | Elkins High School |
| Teacher Name | Sterling Emitt |
| Subject / Course Name | MATH / Algebra 2 |
| Assignment Description | ONLINE: Google Classroom PAPER HARD-COPY: Translate open sentences into algebraic expressions; evaluate and simplify expressions; apply algebraic properties to simply problems |
| Contact Information | EMAIL ADDRESS: semitt@elkinsdistrict.org OTHER: Google Classroom (post a comment or a thread) |

Assignments will be graded and entered into the gradebook according to the teacher's grading system. Attendance will be recorded based upon completion of the assignment.

Name: _____ Date: _____ Period: _____

Learning Targets:

- 1.1- I can translate real world problems into expressions using variables to represent values. (C.1.b)
 - 1.2- I can evaluate and simplify expressions using the order of operations. (C.1.a) (A.1.a)
 - 1.3- I can apply algebraic properties to simplify algebraic expressions. (C.1.c)
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Write the algebraic expression for each verbal expression below.

- 1. The product of 14 and a number squared
- 2. The quotient of twice a number and 4

Write an expression for each example below.

- 3. The area of a semi-circle is found by multiplying π by the radius squared and dividing by two.

- a. Write an expression to represent the formula for the area of a semi-circle.

- b. Use the expression from *part a* to find the area of a semi-circle if the radius is 12.

- 4. Courtney volunteered to work the gate and sell tickets to her school's basketball game.

- a. Use the chart below to write an expression to show how much money she will collect if she sells x adult tickets and y student tickets.

| <u>Type of Ticket</u> | <u>Cost of Ticket</u> |
|-----------------------|-----------------------|
| Adult | \$4.00 |
| Student (or child) | \$2.50 |

- b. If Courtney sold 85 adult tickets and 90 student tickets how much money will she collect?

5. The Math Club is selling t-shirts for \$12 each and hoodies for \$18 each.

a. Write an algebraic expression that represents the cost of the order and label the variables.

b. Calculate the total cost of the order if the Math Club sold 62 t-shirts and 20 hoodies.

Evaluate each expression.

6. $2\left(4^2 - 15 + \frac{25}{5}\right) - 29$

7. $\frac{12 + (3 \cdot 6 - 8) - 4}{2^3 + (16 - 15)}$

Evaluate each expression if $a = -3$, $b = 2$, and $c = 6$.

8. $a^2 + 2bc - c$

9. $3(-2b + a)^2 + 5c$

Find the value of x . Then name the property used.

10. $20 \cdot \frac{1}{20} = x$

11. $x + (-5) = 0$