Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_

**3.1A Algebraic Expressions\_Classwork**

*Objective: apply properties of operations to simplify algebraic expressions; solve real-life problem.*

*CC.SS.7.EE.1 and CC.SS.EE.2*

Watch this and take notes: <https://www.youtube.com/watch?v=oXvjXsIU79A>

|  |  |  |
| --- | --- | --- |
| **Examples** | **Vocabulary Term** | **Definition** |
|  |  | A single number or variable Or numbers and variable multiplied together. |
|  |  | Terms whose variable are the same. |
|  |  | A symbol for number that we don’t know yet, usually a letter. |
|  |  | A number used to multiply by a variable |
|  |  | A fixed value, a number on its own. |
|  |  | An expression that may contain numbers operations, and one or more symbols. |

**EXAMPLE 1:**

|  |  |
| --- | --- |
| Terms:  Coefficients:  Constant(s): | Terms:  Coefficients:  Constant(s): |
| Terms:  Coefficients:  Constant(s): | Terms:  Coefficients:  Constant(s): |
| Terms:  Coefficients:  Constant(s): | Terms:  Coefficients:  Constant(s): |
| Terms:  Coefficients:  Constant(s): | Terms:  Coefficients:  Constant(s): |

Evaluate each algebraic expression when x=1. Then compare each expression in the left table and right table.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | ***Value When:*** | | | ***Expression*** | ***X=1*** | |  |  | |  |  | |  |  | |  |  | |  |  | | |  |  | | --- | --- | | ***Value When:*** | | | ***Expression*** | ***X=1*** | |  |  | |  |  | |  |  | |  |  | |  |  | |