Expressions and Equations

order of operations

A rule that tells you the sequence to follow when performing operations in a mathematical *expression*.

parentheses

multiplication

addition

P E M or D A or S

exponents

division

subtraction

Do **P** and **E**, first. Then do **M** or **D**, left to right. Lastly, do **A** or **S**, left to right.

Expressions and Equations

expression

An *expression* is a group of *terms* and operators (+, −, ×, ÷) that represent a value.

$$4(y + 1)$$
expression

$$2 \times 3$$
expression

$$(7 - 3) \div 2^2$$
expression

Expressions and Equations

variable

A *variable* is a symbol that represents an unknown value.

$$z + 2 = 6$$
variable

A *variable* is usually a letter.
It can also be a shape like a star or a Greek letter like Δ (Delta).

Expressions and Equations

term

A <u>term</u> is a constant, a *variable*, or *coefficients* together with *variables*.

$$5x + z = 13$$

term — coefficient & variable
term — variable
term — constant

Expressions and Equations

coefficient

A <u>coefficient</u> is a number used to multiply a *variable*.

coefficient   variable

$$4y - 7 = 1$$

4 times y

Monday - no school
Tuesday - evaluating/interpreting expressions (term, coefficient, variable)
Wednesday - writing an algebraic expression
Thursday - expressions review
Friday - test

I think it would be helpful to go over the vocabulary that I have attached, help her with homework problems, help her review for the test Friday, and continue to emphasize PEMDAS and solving expressions using the order of operations. If I notice specific things during the week or Thursday before the test I will shoot you another email.