

**Objective:** Students can identify the structure of an algebraic expression and equation with proper vocabulary.  
Students can interpret the context of an algebraic expression and equation.

### Parts of an Algebraic Sentence- Introduction

PVHS math department is doing a fundraiser to raise money for a school math trip to the hometown of Pythagoras. The school decided to donate \$250 right off the bat. Algebra students are going to sell t-shirts and teachers are going to have a carwash. If student make \$8 profit on every shirt they sell and teachers make \$5 for every car they wash.

$$8t + 5c + 250$$

What's the difference between an expression and an equation?

What do you call (vocab) the \$250 in the expression?

What do you call (vocab) the c in the term 5c?

What do you call (vocab) the 5 in the term 5c?

What does 5c stand for in context of the expression?

What does 8t stand for in context of the expression?

What does 8t +5c stand for in context of the expression?

How could you make this expression an equation (don't just say put an = sign)?

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A box of chocolates at Lagomarcino's is computed by charging for each kind of chocolate. The caramels cost \$0.40 each, the butter creams are \$0.30 each, and the chocolate covered cherries are \$0.60 each. For a particular sale this equation describes the cost of the purchase:

$$0.40a + 0.30b + 0.60c = 8.00$$

- What does each of the variables represent in context of the equation?

a = \_\_\_\_\_ b = \_\_\_\_\_ c = \_\_\_\_\_

- What are the coefficients and what do they represent in context of the equation?

- What does 8.00 represent in context? \_\_\_\_\_

- What does 0.40a represent in context? \_\_\_\_\_

- What vocabulary word does 0.30 represent? \_\_\_\_\_

- What vocabulary word does 0.60c represent? \_\_\_\_\_

- What vocabulary word does c represent? \_\_\_\_\_