

Interpreting Expressions

Example

Identify each term, coefficient,
constant and factor of :

$$4x^2 - 3x + 3$$

Example

Identify each term, coefficient,
constant and factor of :

$$2(3+x) + x(1-4x) + 5$$

Example

Item	Cost (\$)
CD	c
DVD	d

How can you write the cost of 2 DVD's as an algebraic expression?

How can you write the cost of 2 DVD's and 3 CD's as an algebraic expression?

How can you write the cost of 2 DVD's and 3 CD's, increased by \$5.60 for taxes, as an algebraic expression?

Example

Name the term(s), coefficient, constant and factors described by the phrase, “the cost of 4 tickets to the football game, t , and a service charge of \$10.”

Launch

Tara and two friends had dinner at a Spanish tapas restaurant that charged \$6 per tapa, or appetizer. The three of them shared several tapas. The total bill included taxes of \$4.32. What are the terms, factors, and coefficients of the algebraic expression that represents the number of tapas ordered including taxes?

Let's take it one step at a time!!!

Question 1

What was the cost of each tapa without taxes?

Question 2

- What algebraic expression can be used to represent the number of tapas ordered if each one cost \$6?

Question 3

- What algebraic expression can be used to represent the cost of tapas ordered including taxes?

Question 4

How many terms does the expression from part c include?

Question 5

What are the factors that make up each term?

Question 6

What are the coefficients of each term?

Example

A smartphone is on sale for 25% off its list price. The sale price of the smartphone is \$149.25. What expression can be used to represent the list price of the smartphone? Identify each term, coefficient, constant and factor of the expression described.

Example

Helen purchased 3 books from an online bookstore and received 20% discount. The shipping cost was \$10 and was not discounted. What expression can be used to represent the total amount Helen paid for 3 books plus the shipping cost? Identify each term, coefficient, constant and factor of the expression described.