## **Expression vs. Equation**

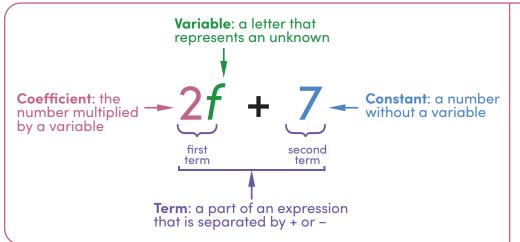
An **expression** is a mathematical phrase that contains numbers, variables, or both. Expressions never have an equal sign.

$$2f + 7$$

An **equation** states that two expressions are equal. Equations always have an equal sign.

$$2f + 7 = 31$$

Expressions and equations are made of different parts. Take a closer look at each part of the expression below.



Expressions and equations can also include **factors**, or numbers you multiply to get another number.

In 2f + 7, the first term has two factors: 2 and f.

Directions: Draw a circle around each expression. Draw a rectangle around each equation.

$$6 + k = 14$$

$$\frac{2}{3} \div \frac{1}{7}$$

$$0.25g \times 0.76h$$

$$10^4 = 5z$$

$$8w - 3w = 20$$

$$3 = (2p + 7) \div 5$$

$$(6 + 9) \times 4$$

$$2m + 7n = 14n - 1$$

$$\frac{3 + 2j}{10}$$

**Directions:** Answer the questions about the following expressions.

10x - y + 3.5	3a + 6 + b
How many terms does the expression have?	How many terms does the expression have?
What is the coefficient of the first term?	What are the variables?
What is the constant term?	What are the factors of 3 <i>a</i> ?