## **Expression vs. Equation**

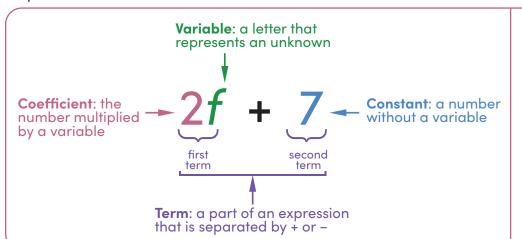
An **expression** is a mathematical phrase that contains numbers, variables, or both. Expressions never have an equal sign.

$$2f + 7$$

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.

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

$$0.25g \times 0.76h$$

$$10^4 = 5z$$

$$8w - 3w = 20$$

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

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

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

$$\left(\frac{3+2j}{10}\right)$$

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

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