

7.1 (pg. 296)

Writing Equations



An **EQUATION** is a mathematical sentence showing two expressions are equal.

Expressions

$$4 + 8$$

$$n + 8$$

Equations

$$4 + 8 = 12$$

$$n + 8 = 12$$

Look for key words: *is, the same as, equals*

An equation contains an **EQUALS SIGN (=)**.

Examples:

$$2 + 7 = 9 \quad 10 - 6 = 4 \quad 14 = 2 \cdot 7$$

Some equations contain variables:

$$2 + f = 9 \quad 4 = t - 6 \quad 15 \div y = 3$$



Writing word sentences as equations:

Word sentence:

The sum of a number n and 7 is 15.

A number y decreased by 4 is 3.

12 times a number p equals 48

An equation is:

$$n + 7 = 15$$

$$y - 4 = 3$$

$$12p = 48$$