## **Lesson 5.3** Writing Expressions

An **equation** is a number sentence that contains an equal sign.

An **expression** is a number phrase without an equal sign.

Equations and expressions may contain only numerals, or they also may contain variables. A **variable** is a symbol, usually a letter, that stands for an unknown number.

	Equation	Expression
Numerical	$3 \times 5 = 15$	9 + 2
Variable	2n + 2 = 18	a - 5

All equations and expressions express an idea.

 $3 \times 4$  means "three 4s."  $6 \div 3 = 2$  means "6 divided by 3 is 2."

n-7 means "n decreased by 7" or "a number decreased by 7."

4n + 2 = 6 means "four times a number, plus 2, is 6" or "4ns, plus 2, is 6."

Translate each phrase into an expression or an equation.

a

b

12 divided by a number \_\_\_\_\_

c less than 7 \_\_\_\_\_

one-fourth of x

the product of 15 and m \_\_\_\_\_

Translate each sentence into an equation. Use n for an unknown number.

Write each expression in words.