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.

	Equatio	n	
_	_		_

Expression

$$3 \times 5 = 15$$

$$2n + 2 = 18$$

All equations and expressions express an idea.

 3×4 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 _____

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

Write each expression in words.

Lesson 5.3 Writing Expressions

Translate each phrase into an algebraic expression or an equation.

a

I. subtract 8 from 3 times d

2. g minus 2 is 14 _____

3. the sum of 7 and z ______

4. two-fifths of the sum of 6 and s _____

5. 10 minus *x* _____

6. 3 is subtracted from 5 times a _____

7. *s* is added to 9 _____

8. take away 9 from *h* _____

b

take away 3 from x _____

z is added to 8 _____

2 is subtracted from 4 times d _____

9 minus *c* _____

subtract 9 from the product of 4 and f

y minus 3 is 15 _____

the sum of 8 and t_____

one-third of the sum of 7 and k _____

Write each expression in words.

10. $3 \times g = 27$

12. $\frac{1}{2} \times b + 9 = 11$

14. $6 \times b = 42$

16. $\frac{1}{4} \times t + 8 = 16$