

# REVIEW: Writing Expressions and Equations

Name \_\_\_\_\_

## Key Concept and Vocabulary

**Phrase:** Two more than a number

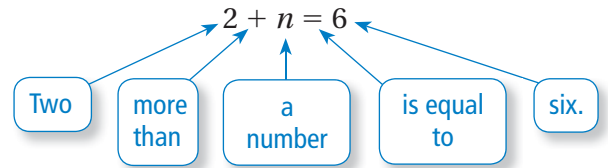
**Expression:**  $2 + n$

**Sentence:** Two more than a number is equal to six.

**Equation:**  $2 + n = 6$



## Visual Model



## Skill Examples

- Five times a number:  $5n$
- Six less than three times a number:  $3n - 6$
- The sum of a number and one:  $n + 1$
- A number divided by three:  $n \div 3$

## Application Example

- Write an equation for the following.  
"The price of \$15 is the wholesale cost plus a markup of fifty percent."

Let  $C$  be the wholesale cost.

50% of  $C$  is  $0.5C$ .



An equation is  $15 = C + 0.5C$ .

## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Write the verbal phrase as a mathematical expression.

- The product of a number and two

$2n$

- 19 less than twice a number

$2n - 19$

- Five times the sum of a number and two

$5(n + 2)$

- 10 subtracted from a number

$n - 10$

- The sum of a number and three, divided by four

$\frac{n + 3}{4}$

- Seven less than four times a number

$4n - 7$

Write the sentence as an equation.

- Three times a number equals nine.

$3n = 9$

- Twelve divided by a number is four.

$\frac{12}{n} = 4$

- The difference of a number and nine is four.

$n - 9 = 4$

- The sum of a number and seven is eighteen.

$n + 7 = 18$

- The volume of a cone is one-third the area of the base times the height. A cone has a volume of  $20\pi$  cubic inches. Write an equation that can be used to solve for the height of the cone.

$20\pi = \frac{1}{3} \cdot 4\pi \cdot h$

