

# REVIEW: Writing Algebraic Expressions and Equations

## Key Concept and Vocabulary

**Phrase:** Two more than a number

**Expression:**  $2 + n$

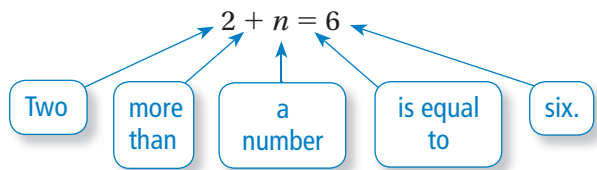
**Sentence:** Two more than a number is equal to six.

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



Name \_\_\_\_\_

## 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 an algebraic expression.

- |   |   |
|---|---|
| 6. The product of a number and two<br>_____         | 7. 10 subtracted from a number<br>_____                       |
| 8. 19 less than twice a number<br>_____             | 9. The sum of a number and three,<br>divided by four<br>_____ |
| 10. Five times the sum of a number and two<br>_____ | 11. Seven less than four times a number<br>_____              |

Write the sentence as an equation.

- |  |   |
|--|---|
| 12. Three times a number equals nine.<br>_____   | 13. The difference of a number and nine is four.<br>_____ |
| 14. Twelve divided by a number is four.<br>_____ | 15. The sum of a number and seven is eighteen.<br>_____   |
16. 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.  
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