



PRACTICE Model Math Write an expression for each situation. Then evaluate it.

7. Monica has 7 hats. Andrea has *b* fewer hats than Monica. If b = 5, how many hats does Andrea have?

7 - b; 7 - 5 = 2 hats

8. There are 4 shelves with canned dog food. Each shelf has *t* cans. Then Tracy adds 2 cans to only 1 of the shelves. If *t* = 8, how many cans are on the shelves altogether?

 $4 \times t + 2$; $4 \times 8 + 2 = 34$ cans

9. Valerie is making identical quilts for herself and her sister. For each quilt she buys 5 yards of solid fabric and w yards of printed fabric. If w = 4, how much fabric did Valerie buy to make both quilts?

$$(5 + w) \times 2; (5 + 4) \times 2 = 18$$
 yards

Sample answers: 10, 11

Vocabulary Check

10. Explain what a variable is.

A variable is a symbol or letter that stands for an unknown.

11. What does it mean to evaluate an expression?

To evaluate an expression means to replace a variable with

a number in order to find its value.

Test Practice

12. Evaluate the expression $h + 8 \div 4$ if h = 16.

- A 20
 - **B** 18 **D** 6