# MY <br> Homework 

## Lesson 6

## Evaluate

 Expressions
## Homework Helper <br> $\square$

Need help? $₫$ connectED.mcgraw-hill.com
Kevin used half of the tools from his toolbox. An hour later he put 3 tools back. How may tools is Kevin still using if he had $z$ tools in his toolbox? Write an expression. Then evaluate the expression if $z=8$.

Write the expression.

$$
z \div 2-3
$$

Replace $z$ with 8 .

When there are no parentheses, first multiply or divide, in order, from left to right.


Kevin is still using 1 tool.

## Practice

Algebra Evaluate each expression if $\mathbf{c}=\mathbf{4}$ and $\boldsymbol{d}=7$.

1. 15 -d
2. $16+c$
$15-7=8 \quad 16+4=20$
3. $35 \div d$
$35 \div 7=5$

Algebra Evaluate each expression if $\boldsymbol{x}=14$ and $\boldsymbol{y}=\mathbf{6}$.
4. $(x+y) \div 4$

5. $x-2 \times 2$

6. $y+24 \div 2$
$6+24 \div 2$
$6+\quad 12=18$

## Problem Solving

Mathematical
PRACTICE 4 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?

$$
7-b ; 7-5=2 \text { hats }
$$

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?
$(\quad 5+w \quad) \times 2 ;(5+4) \times 2=18$ yards
Sample answers: 10, 11

## Vocabulary Check (acat

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
© 8
(B) 18
(D) 6
