

# MY Homework

## Lesson 6

### Evaluate Expressions

## Homework Helper



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Kevin used half of the tools from his toolbox. An hour later he put 3 tools back. How many 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.

$$\begin{array}{c} 8 \div 2 - 3 \\ \swarrow \quad \searrow \\ 4 \quad - 3 \\ \swarrow \quad \searrow \\ 1 \end{array}$$

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  $c = 4$  and  $d = 7$ .

1.  $15 - d$

2.  $16 + c$

3.  $35 \div d$

$15 - \underline{\quad} = \underline{\quad}$        $16 + \underline{\quad} = \underline{\quad}$        $35 \div \underline{\quad} = \underline{\quad}$

**Algebra** Evaluate each expression if  $x = 14$  and  $y = 6$ .

4.  $(x + y) \div 4$

5.  $x - 2 \times 2$

6.  $y + 24 \div 2$



# Problem Solving

Mathematical  
**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?

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

$4 \times t$  \_\_\_\_\_;  $4 \times$  \_\_\_\_\_

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?

( \_\_\_\_\_ )  $\times 2$ ; \_\_\_\_\_

## Vocabulary Check



10. Explain what a variable is.

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11. What does it mean to evaluate an expression?

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\_\_\_\_\_

## Test Practice

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

(A) 20

(C) 8

(B) 18

(D) 6