



Review

Do You Know How?



Variables and Expressions (2-12)

Evaluate each expression for $n = 3$ and $n = 4$.

- | | |
|--------------------------------------|---------------------------------|
| 1. $0.2 \times n$
0.6; 0.8 | 2. $n + 5.7$
8.7; 9.7 |
| 3. $31 - n$
28; 27 | 4. $24 \div n$
8; 6 |
| 5. $9n$
27; 36 | 6. $n - 1.8$
1.2; 2.2 |

Do You Understand?



- A** Tell how you evaluated each expression. **See margin.**
- B** Explain the meaning of the expression $100y$.
Sample answer: 100y means 100 times y.

Problem-Solving Skill: Translating Words into Expressions (2-13)

Write each word phrase as an algebraic expression.

7. 3.5 more than a number **$3.5 + n$**
8. A length decreased by 12 **$l - 12$**
9. The quotient of a number and 6
 $n \div 6$ or $\frac{n}{6}$

- C** Explain how you found each algebraic expression. **See margin.**
- D** Write two word phrases for the algebraic expression $9x$.
Sample answer: 9 times a number; the product of a number and 9

Find a Rule (2-14)

Find a rule for each table. Write the rule in words and with a variable.

10.

Input	Output
55	49
42	36
28	22
13	7

Subtract 6; $n - 6$

11.

Input	Output
1	9
5	45
7	63
11	99

Multiply by 9; $9n$

- E** Tell how you found the rule for each table. **See margin.**
- F** In Exercise 11, if 30 is listed as an input number, what would the output number be? Explain.
270; Sample answer: the rule is "multiply by 9," so $30 \times 9 = 270$.

Solving Equations (2-15)

Solve by using mental math.

12. $h - 60 = 6$
 $h = 66$
13. $7m = 56$
 $m = 8$
14. $25 + t = 52$
 $t = 27$
15. $100m = 800$
 $m = 8$
16. $x + 100 = 800$
 $x = 700$

- G** Explain how you solved each equation. **See margin.**
- H** Does $t + 25 = 52$ have the same solution as Exercise 14? Explain why or why not.
Yes; Sample answer: Because addition is commutative $t + 25 = 25 + t$