

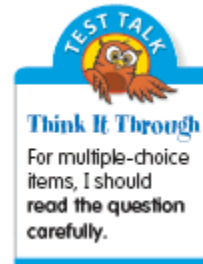
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Chapter 2 Section C Diagnostic Checkpoint

MULTIPLE CHOICE

- Which algebraic expression represents the cost of g CDs if each CD costs \$15? (2-13)
A. $g + 15$ B. $g - 15$ C. $15g$ D. $g \div 15$
- Which is the solution to the equation $43 - k = 36$? (2-15)
A. $k = 7$ B. $k = 8$ C. $k = 79$ D. $k = 80$



FREE RESPONSE

Evaluate each expression for $m = 7$ and $m = 9$. (2-12)

3. $4m$ 4. $29 + m$ 5. $m - 7$ 6. $\frac{63}{m}$

Write each word phrase as an algebraic expression. (2-13)

7. The sum of a number and 70 8. 8 multiplied by a number

Find a rule for each table. Write the rule in words and with a variable. (2-14)

9.

Input	Output
4	106
8	110
15	117
20	122

10.

Input	Output
9	1
27	3
45	5
54	6

11.

Input	Output
36	30
24	18
12	6
6	0

12.

Input	Output
2	24
5	60
6	72
10	120

Solve each equation by using mental math. (2-15)

13. $j + 11 = 20$ 14. $\frac{n}{4} = 4$ 15. $7.1 - y = 2.1$
16. $3s = 30$ 17. $a - 9 = 59$ 18. $5p - 55$
19. At three months, Mia weighs 6 pounds more than she did at birth. Use w for Mia's weight at birth. Which expression shows her weight at 3 months? (2-13, 2-16)
 $w + 6$ $w - 6$ $6w$

Writing in Math

20. Joan says that if you evaluate $6z$ for $z = 7$, the answer is 67. Is she correct? If not, tell why and then explain how you would evaluate the expression. (2-12)
21. Explain how to use mental math to solve the equation $2 + b = 9$. (2-15)