

1 Chapter 1 Test, Form 2D

Assessment

For Questions 1 and 2, write an algebraic expression for each verbal expression.

- 1. the sum of one-third of a number and 27 1. _____
- 2. the product of a number squared and 4 2. _____
- 3. Write a verbal expression for $5n^3 + 9$. 3. _____
- 4. Evaluate $3^2[(12 - 4) \div 2]$. 4. _____
- 5. Evaluate $4w + (v - 5)t$ if $w = 2$, $v = 8$, and $t = 4$. 5. _____

For Questions 6 and 7, name the property used in each equation. Then find the value of n .

- 6. $11 \cdot n = 1$ 6. _____
- 7. $7 + n = 7 + 3$ 7. _____
- 8. Evaluate $6(6 \cdot 1 \div 36)$. Name the property used in each step. 8. _____

- 9. Rewrite $(10 + 3)5$ using the Distributive Property. Then simplify. 9. _____

Simplify each expression.

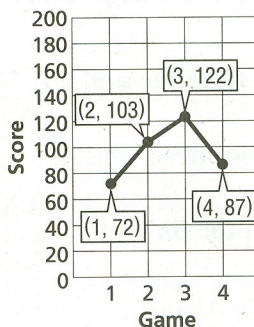
- 10. $4w^2 + 7w^2 + 7z^2$ 10. _____
- 11. $3x + 4(5x + 2)$ 11. _____

For Questions 12 and 13, evaluate each expression.

- 12. $5 \cdot 13 \cdot 4 \cdot 1$ 12. _____
- 13. $17 + 6 + 3 + 14$ 13. _____
- 14. Find the solution of $3x - 8 = 16$ if the replacement set is $\{5, 6, 7, 8, 9\}$. 14. _____
- 15. Solve $\frac{6 + 4^2 \cdot 3}{10 - 1} = y$. 15. _____

1 Chapter 1 Test, Form 2D *(continued)*

Use the graph that shows Robert's bowling scores for his last four games.



16. Identify the independent and dependent variables.

16. _____

17. Describe what may have happened between the first and fourth games.

17. _____

For Questions 18 and 19, use the table that shows 2006 airmail letter rates to New Zealand.

Weight (oz)	Rate (\$)
2.0	1.80
3.0	2.75
4.0	3.70
5.0	4.65

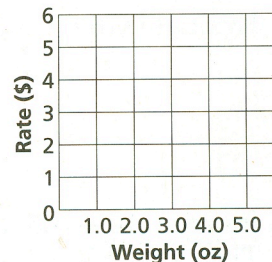
18. _____

18. Write the data as a set of ordered pairs.

19. Draw a graph that shows the relationship between the weight of a letter sent airmail and the total cost.

Source: *World Almanac*

19. _____



20. Find a counterexample for the following statement.
If the sum of 2 numbers is even, then the 2 numbers are even numbers.

20. _____

Bonus Insert brackets, parentheses, and the symbols for addition, subtraction, and division in the following sequence of numbers to create an expression whose value is 4.

B: _____

2 5 1 4 1