Name:	Class:	Date:	ID: A

Algebra 1 Chapter 1 Test Review

Short Answer

Write an algebraic expression for the phrase.

- 1. the sum of *b* and 11
- 2. the product of g and 4
- 3. 4 times the sum of q and p
- 4. -2 times the quantity q minus 3

Define a variable and write an expression for the phrase.

- 5. the quotient of 6 times a number and 16
- 6. 4 minus a number
- 7. The total cost to rent a row boat is \$18 times the number of hours the boat is used. Write an equation to model this situation if c = total cost and h = number of hours.
- 8. What equation models the data in the table if d = number of days and c = cost?

Days	Cost
2	44
3	66
5	110
6	132

- 9. Evaluate u + xy, for u = 18, x = 10, and y = 8.
- 10. A pair of shoes costs \$52.99 and the state sales tax is 8%. Use the formula C = p + rp to find the total cost of the shoes, where C is the total cost, p is the price, and r is the sales tax rate.
- 11. Evaluate the expression $(ab)^2$ for a = 4 and b = 3.
- 12. You can use the formula $C = \frac{5}{9}(F 32)$ to convert temperature in degrees Fahrenheit, F, to temperature in degrees Celsius, C. What is 62°F in degrees Celsius? Round your answer to the nearest tenth.

Simplify the expression.

13.
$$3[(15-3)^2 \div 4]$$

14.
$$4(20 + 12) \div (4 - 3)$$

- 15. -9 + 6
- 16. -4.8 (-4.9) + 5.7