

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. $-4.8 - (-4.9) + 5.7$