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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  $g$  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  $w$  = cost?

Days	Cost
1	44
2	66
3	110
6	132

9. Evaluate  $a + xy$ , for  $a = 18$ ,  $x = 10$ , and  $y = 8$ .
10. A pair of shoes costs \$52.00 and the state sales tax is 8%. Use the formula,  $C = p + sp$  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  $62^\circ\text{F}$  in degrees Celsius? Round your answer to the nearest tenth.

Simplify the expression.

13.  $\sqrt{(15 - 3)^2 + 4}$
14.  $4(20 + 12) + (4 - 3)$
15.  $-9 + 6$
16.  $-4.8 - (-4.10) + 5.7$

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**Prentice Hall Algebra 1 Chapter 9 Test Answers**