1-1

Homework

Write an algebraic expression for each word phrase.

1. 11 more than y

2. 5 less than n

3. the sum of 15 and w

4. 22 minus k

5. a number b divided by 8

6. q multiplied by 2

7. the product of 3.3 and a number x

8. one third of a number m

Write a word phrase for each algebraic expression.

9. $8 - a$

10. $v + 9$

11. $\dfrac{y}{5} - 10$

12. $1.9 + n$

13. $5h + 3k$

14. $2x + 1$

Write a rule in words and as an algebraic expression to model the relationship.

15. At a shoe store, a salesperson earns a weekly salary of $150. A salesperson is also paid $2.00 for each pair of shoes he or she sells during the week.

Shoe Sales

Pairs of Shoes Sold	Total Earned
5	$150 + ($2 × 5)
10	$150 + ($2 × 10)
15	$150 + ($2 × 15)
n	■

1-1   Homework

16. Jordan gets paid to mow his neighbor's lawn. For every week that he mows the lawn, he earns $20. Write a rule as an algebraic expression to model the relationship.

Write an algebraic expression for each word phrase.

17. 14 minus the quotient of 25 and p

18. a number w tripled plus t quadrupled

19. the product of 13 and m plus the product of 2.7 and n

20. the product of 2 times a and 5 times b

21. Error Analysis A student writes *the sum of 7 times a number n plus 5* to describe the expression $7(n + 5)$. Explain the error.

22. Sarah is going to pay for an item using gift cards. The clerk tells her that she will need 2 gift cards and an additional $3 to pay for the item. Write an algebraic expression to model the situation using the variable g for the number of gift cards to pay her total bill, t.