Homework

Write an algebraic expression for each word phrase.

1. 11 more than <i>y</i>	2. 5 less than <i>n</i>
V+11	
3. the sum of 15 and w	4. 22 minus <i>k</i>
15+W	

5. a number *b* divided by 8

7. the product of 3.3 and a number *x*

3.3X

8. one third of a number *m*

6. q multiplied by 2

Write a word phrase for each algebraic expression.

9. 8 – <i>a</i>	10. $v + 9$ 9 more than V
11. $\frac{y}{5} - 10$ 10 less than the quotient of y and 5	12. 1.9 + <i>n</i>
13. 5 <i>h</i> + 3 <i>k</i>	14. 2x + 1 the sum of the product of 2 and X and 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	

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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. \$20 times the number of weeks

> Let w=number of weeks 202

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*

13m + 2.7n

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.

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