



Writing and Interpreting Algebraic Expressions

► Write an algebraic expression for each word phrase or situation.

1 12 more than 8.2 times a number n

2 3 less than the quotient of 18 and a number m

3 5.6 times the sum of 4 and a number p

4 the quotient of 2 and a number x , times 3

5 Five friends split the cost of parking at an amusement park. Each of them also buys a \$30 ticket. Write an algebraic expression that represents the amount of money each friend spends. Identify any variables.

6 A movie theater is open x hours Monday through Thursday and y hours Friday through Sunday. Write an algebraic expression that represents the number of hours per week the theater is open.

► Interpret the meaning of the algebraic expression in each problem.

7 Andrew writes the algebraic expression $2s + 2.79$ to represent the cost of his lunch. He bought 2 sandwiches and a large drink. Identify any variables, coefficients, and terms in the expression. Tell what each represents.



Writing and Interpreting Algebraic Expressions *continued*

- 8 A teacher writes the algebraic expression $24c + 5m + 19.99$ to represent the cost of supplies she purchased for her classroom. She bought 24 packages of colored pencils, 5 packages of markers, and a beanbag chair. Identify any variables, coefficients, and terms in the expression. Tell what each represents.
- 9 Write a situation that could be represented by the algebraic expression $3s + 2.15$.