

Writing and Interpreting Expressions

Interpreting:

1. A taxi cost \$4 for the first mile ridden. Then the taxi cost \$2.50 for each additional mile ridden. The expression $4 + 2.5(m - 1)$ was created to find the total cost, in dollars.
What does the 4 represent?
What does m represent?
What does 2.5 represent?
What does $(m - 1)$ represent?
2. Marina burns calories at a rate of 15 calories per minute when running and 6 calories per minute when walking. Suppose she exercises for 60 minutes by running r minutes and walking the remaining time. The expression $15r + 6(60 - r)$ represents the calories burned during the 60 minute session.
What does $15r$ represent?
What does $60 - r$ represent?
What does $6(60 - r)$ represent?

Writing Expressions

1. In basketball, Carmela's team scored seven 1-point free throws and four times as many 2-point baskets as 3-point baskets. Write the expression that represents the total number of points that the team scored where b stands for the number of 3-point baskets that the team scored.
2. Five decreased by the sum of 3 and x
3. The product of a number and four more than that number
4. The sum of 3 and n , times $2n$
5. Thirty divided by the sum of 10 and x
6. The sum of twice a number and three times that number
7. The square of the sum of 5 and n
8. A certain number is decreased by the sum of three and half the number
9. The product of the sum and the difference of two numbers