Write Equations using Symbols Worksheets

Write each of the following statements using symbolic language.

1. When you square five times a number, you get three more than the number.

2. Monica had some cookies. She gave seven to her sister. Then, she divided the remainder into two halves, and she still had five cookies left.

3. Bruce bought two books. One book costs $4.00 more than three times the other. Together, the two books cost him $72.

4. Janet is three years older than her sister Julie. Janet's brother is eight years younger than their sister Julie. The sum of all of their ages is 55 years.

5. The sum of three consecutive integers is 1,623.

Write Equations using Symbols Worksheets

Write each of the following statements using symbolic language.

1. When you square five times a number, you get three more than the number.

   Let x be the number. Then, $(5x)^2 = x + 3$.

2. Monica had some cookies. She gave seven to her sister. Then, she divided the remainder into two halves, and she still had five cookies left.

   Let x be the original amount of cookies. Then, $\frac{1}{2}(x - 7) = 5$.

3. Bruce bought two books. One book costs $4.00 more than three times the other. Together, the two books cost him $72.

   Let x be the cost of the less expensive book. Then, $x + 4 + 3x = 72$.

4. Janet is three years older than her sister Julie. Janet's brother is eight years younger than their sister Julie. The sum of all of their ages is 55 years.

   Let x be Julie's age. Then, $(x + 3) + (x - 8) + x = 55$.

5. The sum of three consecutive integers is 1,623.

   Let x be the first integer. Then, $x + (x + 1) + (x + 2) = 1623$.