

Lesson Summary

Begin all word problems by defining your variables. State clearly what you want each symbol to represent.

Written mathematical statements can be represented as more than one correct symbolic statement.

Break complicated problems into smaller parts, or try working them with simpler numbers.

Problem Set

Write each of the following statements using symbolic language.

1. Bruce bought two books. One book costs \$4.00 more than three times the other. Together, the two books cost him \$72.
2. 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.
3. The sum of three consecutive integers is 1,623.
4. One number is six more than another number. The sum of their squares is 90.
5. When you add 18 to $\frac{1}{4}$ of a number, you get the number itself.
6. When a fraction of 17 is taken away from 17, what remains exceeds one-third of seventeen by six.
7. The sum of two consecutive even integers divided by four is 189.5.
8. Subtract seven more than twice a number from the square of one-third of the number to get zero.
9. The sum of three consecutive integers is 42. Let x be the middle of the three integers. Transcribe the statement accordingly.