Write Equations using Symbols Worksheets

Write each of the following statements using symbolic language.

1. One number is six more than another number. The sum of their squares is 90.

2. When you add 18 to $\frac{1}{4}$ of a number, you get the number itself.

3. When a fraction of 17 is taken away from 17, what remains exceeds one-third of seventeen by six.

4. The sum of two consecutive even integers divided by four is 189.5.

5. Subtract seven more than twice a number from the square of one-third of the number to get zero.

6. The sum of three consecutive integers is 42. Let x be the middle of the three integers. Transcribe the statement accordingly.

Go to onlinemathlearning.com for more free math resources

Write Equations using Symbols Worksheets

Write each of the following statements using symbolic language.

1. One number is six more than another number. The sum of their squares is 90.

   Let x be the smaller number. Then, $x^2 + (x + 6)^2 = 90$.

2. When you add 18 to $\frac{1}{4}$ of a number, you get the number itself.

   Let x be the number. Then, $\frac{1}{4}x + 18 = x$.

3. When a fraction of 17 is taken away from 17, what remains exceeds one-third of seventeen by six.

   Let x be the fraction of 17. Then, $17 - x = \frac{1}{3} \cdot 17 + 6$.

4. The sum of two consecutive even integers divided by four is 189.5.

   Let x be the first even integer. Then, $\frac{x + (x + 2)}{4} = 189.5$.

5. Subtract seven more than twice a number from the square of one-third of the number to get zero.

   Let x be the number. Then, $\left(\frac{1}{3}x\right)^2 - (2x + 7) = 0$.

6. The sum of three consecutive integers is 42. Let x be the middle of the three integers. Transcribe the statement accordingly.

   $(x - 1) + x + (x + 1) = 42$