Lesson 4

Homework

Activity 1

Tell the general pattern for each property shown.

1. $12 + 0 = 12$

   $\frac{1}{2} + 0 = \frac{1}{2}$

   $-7 + 0 = -7$

   (a) $12 + x = 12$
   (b) $x + 0 = x$
   (c) $x + y = z$

2. $-5 + 5 = 0$

   $-\frac{1}{3} + \frac{1}{3} = 0$

   $-7.2 + 7.2 = 0$

   (a) $-5 + \frac{1}{5} = 0$
   (b) $-\frac{1}{3} + \frac{1}{3} = x$
   (c) $-x + x = 0$

Activity 2

Translate the words into expressions.

1. 5 more than a number
2. a number minus 6
3. a number plus 7
4. 17 minus a number
5. 4.7 divided by a number
6. 3 less than a number

Activity 3

Write the word problems using algebra, then solve.

1. The sum of two numbers is 130. One of the numbers is 50 more than the other number. What are the two numbers?

2. The sum of three numbers is 60. The smallest number is 10 less than the middle number. The biggest number is 10 more than the middle number. What are the three numbers?

Activity 4 • Distributed Practice

Solve.

1. $25 = 4 + 3z$
2. $4h = -40$
3. $\frac{3}{5} = \frac{9}{a}$
4. $16 = 2(-2 + x)$
5. $b = -3 + 5$
6. $c + -\frac{1}{2} = 0$