



Problem of the Week

Problem A and Solution

Breakfast Supplies

Problem

A carton of eggs costs \$3.90 and a package of bacon costs \$7.10. If I went to the store and bought 2 cartons of eggs and 1 package of bacon, how much change would I have left from \$20.00?

Solution

We can start by calculating the total spent on bacon and eggs as $\$3.90 + \$3.90 + \$7.10 = \14.90 . If we subtract that total from \$20.00, we get $\$20.00 - \$14.90 = \$5.10$. So, we would have \$5.10 left over from our \$20.00.

If we wanted to avoid doing calculations with decimal places, we could change all the amounts to cents. In this case, we multiply all of the dollar amounts by 100. So, the total spent would be $390 + 390 + 710 = 1490$ cents. The amount left over would be $2000 - 1490 = 510$ cents. Then, we can divide the number of cents by 100 to get back to a dollar amount of \$5.10.