

Lesson 19: Quiz 2 – Subtraction problem solving



Directions: Estimate these problems first, then solve them.

Estimate:

Women at the age of 30 years need to eat only 2,250 calories a day to be healthy.

At the same age men need 3,225 calories a day. How many more calories do men need than women?

Estimate:

$$\begin{array}{r} 3,225 \\ - 2,250 \\ \hline \end{array} \approx \begin{array}{r} 3200 \\ - 2300 \\ \hline \end{array}$$

900 calories

Answer:

$$\begin{array}{r} 2 \quad 11 \quad 12 \\ 3, \quad 2 \quad 2 \quad 5 \\ - 2, \quad 2 \quad 5 \quad 0 \\ \hline \end{array}$$

975 calories

Answer: You can subtract the ones column easily. You cannot subtract the tens column because **2** is less than **5**. Look to the hundreds column place. Take **1** from the **2** in the hundreds column (convert it to 10 + 2) equaling **12** in the tens column. Now you can subtract (12-5=7).

You cannot subtract the hundreds column because **1** is less than **2**. Borrow **1** from the **3** in the thousands column and add to the hundreds column (10 + 1) equaling **11**. Subtract and the total is **975**.

Directions: Complete the following questions. Remember to include a \$ (dollar sign) in your answer if working with money.

Franco's usual paycheck each week is \$621.56. However, last week he worked some overtime and his check this week was for \$751.95. How much more did he take home this week?

1. What is your estimate (to the nearest dollar) of the difference in the paychecks? _____
2. What is the actual difference in paychecks? _____

Yolanda was shopping for a home computer for her family. A "Company A" computer system would cost \$829.99. A "Company B" computer would cost \$749.99. How much more does a "Company A" home computer cost than a "Company B" home computer?

3. What is your estimate (to the nearest dollar) of the difference in costs? _____
4. What is the actual difference in costs? _____

