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?

\[
\begin{align*}
\text{Estimate:} & & \text{Answer:} \\
3,225 & \approx 3,000 & 3,225 & \approx 3,000 \\
-2,250 & \approx -2,000 & -2,200 & \approx -2,000 \\
900 & & 975 & \\
900 \text{ calories} & & 975 \text{ calories}
\end{align*}
\]

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? ________