Section 1.2 Exercises Part B

1. Round 7,254.07 to the nearest ten.
2. Round 2,862.843 to the nearest hundredth.
3. Round 538,484 to the nearest ten thousand.
4. Round 2,892.56385 to the nearest thousandth.
5. Round 189,364,529.83 to the nearest million.
6. Describe what possible problems students could have with rounding.

Estimate.
7. \(58 \times 391\)  
8. \(438.9 \times 2,892.07\)

9. Estimate the number of heartbeats in a lifetime:  
   (70 beats in a minute, 60 minutes each hour, 24 hours each day, 365 days each year, 80 years)

10. Estimate the number of hairs on your head:  
    (500 hairs covered by your thumb, maybe 120 thumbprints to cover your head)

11. Estimate the daily revenue of a local market or grocery store.  
    (How many people enter each hour? How much do they spend? How long is it open?)

12. Estimate the amount of water needed for the members of your ward for a month.  
    (4 liters per person per day, 30 days per month, number of members in your ward?)

13. Working with your group, find the yearly income for 10 of the jobs brought in by group members.

14. Estimate the lifetime earning of one of the jobs from #13. (40 years of working)

15. Estimate monthly expenses for a family with a few children living in your area. Please include estimates of costs for housing, transportation, food, utilities, and clothing.

16. Enter the estimates for income and expenses into a spreadsheet document.

Answers:
1. 7,250  
2. 2,862.84  
3. 540,000  
4. 2,892.564  
5. 189,000,000  
6. d vs. dth, lack of 1th, any others  
7. About 24,000  
8. About 1,200,000  
9. About 2,500,000,000 (give or take a few)  
10. About 50,000 to 60,000  
11. Completely depends on your numbers  
12. Probably between 20,000L and 30,000L  
13. Make sure they are all there.  
14. Depends on the job you selected  
15. Should look neat.  
16. Complete when everyone can do it.