2–1 Practice Problems

Convert each of the following amounts of energy as indicated. Show all your work.

1. 105 J = _____ Cal

2. 47,500 cal = _____ J

3. 0.251 kJ = _____ kilocalories

4. 401 J = _____ Cal

5. A teaspoon of catsup contains 15 Cal, or _____ J.

6. A bagel contains _____ cal, or 837,000 J.

7. A pear contains 100 Cal, or _____ J.

8. An apple contains _____ cal, or 523 kJ.

Solve each of the following problems as directed. Show all your work.

9. Bryant consumes 2800 Cal on Monday. One half of these Calories came from his lunch. How many joules of energy did he consume at lunch?

10. If there are 4.90 Cal in 10.0 g of parsley, how many joules are in 12.1 g of parsley?