Chapter 3 Problem III (+1) Name _____

18. State the difference between mass and weight.

19. What is the symbol and meaning of each prefix?
    a) milli-
    b) nano-
    c) deci-
    d) centi-

20. As you climbed a mountain and the force of gravity decreased, would your weight increase, decrease, or remain constant? How would your mass change?

21. What is the volume of a paperback book 21 cm tall, 12 cm wide, and 3.5 cm thick?

22. List these units in order, from largest to smallest.
    1 dm^3, 1 μL, 1 mL, 1 L, 1 cL, 1 dL

50. List at least 2 advantages of using SI units for measuring.

51. List the SI base unit of measurement for each of these quantities.
    a) time b) length
    c) temperature d) mass

56. Match the approximate volume with each item.
    a) orange (1) 30 m^3
    b) basketball (2) 200 cm^3
    c) van (3) 20 L
    d) aspirin tablet (4) 200 mm^3

57. How many grams are in each of these quantities?
    a) 1 cg = _____g
    b) 1 μg = _____g
    c) 1 kg = _____g
    d) 1 mg = _____g

58. Astronauts in space are said to have apparent weightlessness. Explain why it is incorrect to say that they are massless.

59. Match the approximate mass with each item.
    a) peanut (1) 400 cg
    b) pear (2) 50 mg
    c) stamp (3) 60 kg
    d) person (4) 150 g