1. An average person contains 12 pints of blood. The density of blood is 1.060 g/cm^3. How much does your blood weigh in pounds?

2. At a pet store I notice that an aquarium has an advertised size of 0.50 ft^3. How many gallons of water will this aquarium hold?

3. A UCA weight lifter can lift 0.1 tons. How much can this student lift in kg?

4. A new car is advertised as having gas mileage of 19 miles/gallon? What is the gas mileage in km/L?

5. A particular anesthetic has a recommended dosage of 3.5 mg/kg of body weight. A 150 lb man is undergoing surgery. Calculate the number of milligrams (mg) of anesthetic you should administer him.

6. Codeine, a powerful narcotic, is often given after a surgical procedure. The morphine you obtain from the drug cabinet is 2.5 mg/mL. How many mL would you administer to a patient if they needed to receive only 1.75 mg of morphine?

Potentially useful conversion factors:

1 lb = 454 grams	1 inch = 2.54 cm	1 meter = 0.91 yards
1 quart = 0.946 liter	1 yard= 0.91 meters	1 lb= 454 g
1 in = 2.54 cm 1 L = 2.113 pints	1 L= 3.78 gallons	1 mile = 1760 yards