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A rectangular building lot has a width of Determine the area of this lot in square meters. We must calculate the area and convert units. Our calculated result agrees reasonably well with our initial estimate and has the proper units of m2. Unit conversion is a common technique that is applied to many problems. Note that one square meter is more than ten square feet. May not be scanned, copied or duplicated, or posted to a publicly accessible website, in whole or in part. Copyright Cengage Learning, Inc. May not be copied, scanned, or duplicated, in whole or in part. A solid piece of lead has a mass of From these data, calculate the density of lead in SI units kilograms per cubic meter. The density of water is 1. We must convert to SI units in the calculation. Observe how we set up the unit conversion fractions to divide out the units of grams and cubic centimeters, and to make the answer come out in kilograms per cubic meter. At one step in the calculation, we note that one million cubic centimeters make one cubic meter. Our result is indeed close to the expected value. One cubic meter 1. Find the radius of a solid aluminum sphere that will balance a solid iron sphere of radius 2. The aluminum sphere must be larger in volume to compensate for its lower density. Its density is roughly one-third as large, so we might guess that the radius is three times larger, or 6 cm. We require equal masses: Volume is proportional to the cube of the linear dimension, so this moderate excess in linear size gives it the 1. What is the thickness of the fresh paint on the wall? We assume the paint keeps the same volume in the can and on the wall. The thickness of 1. How many dollar bills, attached end to end, would it take to reach the Moon? The front endpapers give the Earth-Moon distance. Before doing these calculations, try to guess at the answers. You may be very surprised. The time interval required to repay the debt will be calculated by dividing the total debt by the rate at which it is repaid. Our guess was a bit low. The number of bills is the distance to the Moon divided by the length of a dollar. Ten trillion dollars is larger than this twoand-a-half billion dollars by four thousand times. The ribbon of bills comprising the debt reaches across the cosmic gulf thousands of times, so again our guess was low. Similar calculations show that the bills could span the distance between the Earth and the Sun ten times. With successive turns wound edge to edge without overlapping, the dollars would cover a zone centered on the equator and about 2. So a typical room can hold on the order of a million Ping-Pong balls. To an order of magnitude, how many piano tuners reside in New York City? The physicist Enrico Fermi was famous for asking questions like this one on oral Ph. Each full-time piano tuner must keep busy enough to earn a living. Assume a total population of people. Also, let us estimate that one person in one hundred owns a piano. Assume that in one year a single piano tuner can service about 1 pianos about 4 per day for weekdays , and that each piano is tuned once per year. If you did reach for an Internet directory, you would have to count. Instead, have faith in your estimate. A pet lamb grows rapidly, with its mass proportional to the cube of its length. When the length changes by We will write each of the sentences in the problem as a mathematical equation. Mass is proportional to length cubed: This model of growth is reasonable because the lamb gets thicker as it gets longer, growing in threedimensional space.

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