46 • Calculate the following, round off to the correct number of significant figures, and express your result in scientific notation: (a) $(200.9)(569.3)$, (b) $(0.000000513)(62.3 \times 10^7)$, (c) $28,401 + (5.78 \times 10^4)$, (d) $63.25/(4.17 \times 10^{-3})$.

47 • SSM A cell membrane has a thickness of about 7 nm. How many cell membranes would it take to make a stack 1 in high?

48 • Calculate the following, round off to the correct number of significant figures, and express your result in scientific notation: (a) $(2.00 \times 10^4)(6.10 \times 10^{-7})$, (b) $(3.141592)(4.00 \times 10^5)$, (c) $(2.32 \times 10^3)/(1.16 \times 10^8)$, (d) $(5.14 \times 10^5) + (2.78 \times 10^2)$, (e) $(1.99 \times 10^2) + (9.99 \times 10^{-5})$.

49 • SSM Perform the following calculations and round off the answers to the correct number of significant figures: (a) $3.141592654 \times (23.2)^2$, (b) $2 \times 3.141592654 \times 0.76$, (c) $4/(3 \pi) \times (1.1)^3$, (d) $(2.0)^5/3.141592654$.

General Problems

50 • On many of the roads in Canada the speed limit is 100 km/h. What is the speed limit in miles per hour?

51 • SSM If you could count $1 per second, how many years would it take to count 1 billion dollars (1 billion = 10^9)?

52 • Sometimes a conversion factor can be derived from the knowledge of a constant in two different systems. (a) The speed of light in vacuum is 186,000 mi/s = 3×10^8 m/s. Use this fact to find the number of kilometers in a mile. (b) The weight of 1 ft³ of water is 62.4 lb. Use this and the fact that 1 cm³ of water has a mass of 1 g to find the weight in pounds of a 1-kg mass.

53 •• The mass of one uranium atom is 4.0×10^{-26} kg. How many uranium atoms are there in 8 g of pure uranium?

54 •• During a thunderstorm, a total of 1.4 in. of rain falls. How much water falls on one acre of land? (1 mi² = 640 acres.)

55 •• An iron nucleus has a radius of 5.4×10^{-15} m and a mass of 9.3×10^{-26} kg. (a) What is its mass per unit volume in kg/m³? (b) If the earth had the same mass per unit volume, what would be its radius? (The mass of the earth is 5.98×10^{24} kg.)

56 •• Evaluate the following expressions: (a) $(5.6 \times 10^{-5})(0.0000075)/(2.4 \times 10^{-12})$, (b) $(14.2)(6.4 \times 10^7)(8.2 \times 10^{-9}) - 4.06$, (c) $(6.1 \times 10^{-6})^2(3.6 \times 10^4)^3/(3.6 \times 10^{-11})^{1/2}$, (d) $(0.0000064)^{1/3}/[(12.8 \times 10^{-3})(490 \times 10^{-1})^{1/2}]$.

57 •• SSM The astronomical unit (AU) is defined in terms of the distance from the earth to the sun, namely 1.496×10^{11} m. The parsec is the radius of a circle for which a central angle of 1 s intercepts an arc of length 1 AU. The light-year is the distance that light travels in 1 y. (a) How many parsecs are there in one astronomical unit? (b) How many meters are in a parsec? (c) How many meters in a light-year? (d) How many astronomical units in a light-year? (e) How many light-years in a parsec?

58 •• If the average density of the universe is at least 6×10^{-27} kg/m³, then the universe will eventually stop expanding and begin contracting. (a) How many electrons are needed in a cubic meter to produce the critical density? (b) How many protons per cubic meter would produce the critical density? ($m_e = 9.11 \times 10^{-31}$ kg; $m_p = 1.67 \times 10^{-27}$ kg.)

59 •• SSM The Super-Kamiokande neutrino detector in Japan is a large transparent cylinder filled with ultrapure water. The height of the cylinder is 41.4 m and the diameter is 39.3 m. Calculate the mass of the water in the cylinder. Does this match the claim posted on the official Super-K Web site that the detector uses 50,000 tons of water? The density of water is 1,000 kg/m³.

60 ••• The table below gives experimental results for a measurement of the period of motion T of an object of mass m suspended on a spring versus the mass of the object. These data are consistent with a simple equation expressing T as a function of m of the form $T = Cm^n$, where C and n are constants and n is not necessarily an integer. (a) Find n and C. (There are several ways to do this. One is to guess the value of n and check by plotting T versus m^n on graph paper. If your guess is right, the plot will be a straight line. Another is to plot log T versus log m. The slope of the straight line on this plot is n.) (b) Which data points deviate the most from a straight-line plot of T versus m^n?

Mass m, kg	0.10	0.20	0.40	0.50	0.75	1.00	1.50
Period T, s	0.56	0.83	1.05	1.28	1.55	1.75	2.22

61 ••• The table below gives the period T and orbit radius r for the motions of four satellites orbiting a dense, heavy asteroid. (a) These data can be fitted by the formula $T = Cr^n$. Find C and n. (b) A fifth satellite is discovered to have a period of 6.20 y. Find the radius for the orbit of this satellite, which fits the same formula.

Period T, y	0.44	1.61	3.88	7.89
Radius r, Gm	0.088	0.208	0.374	0.600

62 ••• SSM The period T of a simple pendulum depends on the length L of the pendulum and the acceleration of gravity g (dimensions L/T^2). (a) Find a simple combination of L and g that has the dimensions of time. (b) Check the dependence of the period T on the length L by measuring the period (time for a complete swing back and forth) of a pendulum for two different values of L. (c) The correct formula relating T to L and g involves a constant that is a multiple of π, and cannot be obtained by the dimensional analysis of Part (a). It can be found by experiment as in Part (b) if g is known. Using the value $g = 9.81$ m/s² and your experimental results from Part (b), find the formula relating T to L and g.

63 ••• The weight of the earth's atmosphere pushes down on the surface of the earth with a force of 14.7 lb for each square inch of the earth's surface. What is the weight in pounds of the earth's atmosphere? (The radius of the earth is about 6370 km.)

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