E1-1 (a) Megaphones; (b) Microphones; (c) Decacards (Deck of Cards); (d) Gigalows (Gigolos); (e) Terabulls (Terribles); (f) Decimates; (g) Centipedes; (h) Nanonanettes (?); (i) Picoboos (Peek-a-Boo); (j) Attoboys ('atta boy); (k) Two Hectowithits (To Heck With It); (l) Two Kilomockingbirds (To Kill A Mockingbird, or Tequila Mockingbird).

E1-2 (a) 836,000/52 week = 8692/week. (b)  $810,000,000/(20 \times 12 \text{ month}) = $41,700/\text{month}$ . (c)  $30 \times 10^9/8 = 3.75 \times 10^9$ .

E1-3 Multiply out the factors which make up a century.

$$1 \text{ century} = 100 \text{ years} \left( \frac{365 \text{ days}}{1 \text{ year}} \right) \left( \frac{24 \text{ hours}}{1 \text{ day}} \right) \left( \frac{60 \text{ minutes}}{1 \text{ hour}} \right)$$

This gives 5.256 × 10<sup>7</sup> minutes in a century, so a microcentury is 52.56 minutes.

The percentage difference from Fermi's approximation is (2.56 min)/(50 min) × 100% or 5.12%.

E1-4 (3000 mi)/(3 hr) = 1000 mi/timezone-hour. There are 24 time-zones, so the circumference is approximately 24 × 1000 mi = 24,000 miles.

E1-5 Actual number of seconds in a year is

$$(365.25 \text{ days}) \left(\frac{24 \text{ hr}}{1 \text{ day}}\right) \left(\frac{60 \text{ min}}{1 \text{ hr}}\right) \left(\frac{60 \text{ s}}{1 \text{ min}}\right) = 3.1558 \times 10^7 \text{ s}.$$

The percentage error of the approximation is then

$$\frac{3.1416 \times 10^7 \text{ s} - 3.1558 \times 10^7 \text{ s}}{3.1558 \times 10^7 \text{ s}} = -0.45\%.$$

E1-6 (a) 10<sup>-8</sup> seconds per shake means 10<sup>8</sup> shakes per second. There are

$$\left(\frac{365 \text{ days}}{1 \text{ year}}\right) \left(\frac{24 \text{ hr}}{1 \text{ day}}\right) \left(\frac{60 \text{ min}}{1 \text{ hr}}\right) \left(\frac{60 \text{ s}}{1 \text{ min}}\right) = 3.1536 \times 10^7 \text{ s/year}.$$

This means there are more shakes in a second.

(b) Humans have existed for a fraction of

$$10^6 \text{ years}/10^{10} \text{ years} = 10^{-4}$$
.

That fraction of a day is

$$10^{-4} (24 \text{ hr}) \left( \frac{60 \text{ min}}{1 \text{ hr}} \right) \left( \frac{60 \text{ s}}{1 \text{ min}} \right) = 8.64 \text{ s}.$$

**E1-7** We'll assume, for convenience only, that the runner with the longer time ran exactly one mile. Let the speed of the runner with the shorter time be given by  $v_1$ , and call the distance actually ran by this runner  $d_1$ . Then  $v_1 = d_1/t_1$ . Similarly,  $v_2 = d_2/t_2$  for the other runner, and  $d_2 = 1$  mile.

We want to know when  $v_1 > v_2$ . Substitute our expressions for speed, and get  $d_1/t_1 > d_2/t_2$ . Rearrange, and  $d_1/d_2 > t_1/t_2$  or  $d_1/d_2 > 0.99937$ . Then  $d_1 > 0.99937$  mile × (5280 feet/1 mile) or  $d_1 > 5276.7$  feet is the condition that the first runner was indeed faster. The first track can be no more than 3.3 feet too short to guarantee that the first runner was faster.

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Wayne Anderson, A. Lewis Ford

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