

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

**E1-2** (a)  $\$36,000/52 \text{ week} = \$692/\text{week}$ . (b)  $\$10,000,000/(20 \times 12 \text{ month}) = \$41,700/\text{month}$ . (c)  $30 \times 10^8/8 = 3.75 \times 10^9$ .

**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  $5.256 \times 10^7$  minutes in a century, so a microcentury is 52.56 minutes.

The percentage difference from Fermi's approximation is  $(2.56 \text{ min})/(50 \text{ min}) \times 100\%$  or 5.12%.

**E1-4**  $(3000 \text{ mi})/(3 \text{ hr}) = 1000 \text{ mi}/\text{timezone-hour}$ . There are 24 time-zones, so the circumference is approximately  $24 \times 1000 \text{ mi} = 24,000 \text{ miles}$ .

**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)  $10^{-8}$  seconds per shake means  $10^8$  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  $d_1 > 0.99937 \text{ mile} \times (5280 \text{ feet}/1 \text{ mile})$  or  $d_1 > 5276.7 \text{ feet}$  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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**Brendan G. Carr**



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