

E1-1 (a) Megaphones; (b) Microphones; (c) Decacards (Deck of Cards); (d) Gigalows (Gigolos); (e) Teraballs (Terribles); (f) Decimates; (g) Centipedes; (h) Nanomanettes (?); (i) Picoboos (Peek-a-Boo); (j) Attaboys ('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 5.256×10^7 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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Table of Contents Hrk Bsc Physics Solution Manual All Chapters

1. Understanding the eBook Hrk Bsc Physics Solution Manual All Chapters
 - The Rise of Digital Reading Hrk Bsc Physics Solution Manual All Chapters
 - Advantages of eBooks Over Traditional Books
2. Identifying Hrk Bsc Physics Solution Manual All Chapters
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hrk Bsc Physics Solution Manual All Chapters
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hrk Bsc Physics Solution Manual All Chapters

- Personalized Recommendations
- Hrk Bsc Physics Solution Manual All Chapters User Reviews and Ratings
- Hrk Bsc Physics Solution Manual All Chapters and Bestseller Lists
- 5. Accessing Hrk Bsc Physics Solution Manual All Chapters Free and Paid eBooks
 - Hrk Bsc Physics Solution Manual All Chapters Public Domain eBooks
 - Hrk Bsc Physics Solution Manual All Chapters eBook Subscription Services
 - Hrk Bsc Physics Solution Manual All Chapters Budget-Friendly Options
- 6. Navigating Hrk Bsc Physics Solution Manual All Chapters eBook Formats
 - ePub, PDF, MOBI, and More
 - Hrk Bsc Physics Solution Manual All Chapters Compatibility with Devices
 - Hrk Bsc Physics Solution Manual All Chapters Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hrk Bsc Physics Solution Manual All Chapters
 - Highlighting and Note-Taking Hrk Bsc Physics Solution Manual All Chapters
 - Interactive Elements Hrk Bsc Physics Solution Manual All Chapters
- 8. Staying Engaged with Hrk Bsc Physics Solution Manual All Chapters
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hrk Bsc Physics Solution Manual All Chapters
- 9. Balancing eBooks and Physical Books Hrk Bsc Physics Solution Manual All Chapters
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hrk Bsc Physics Solution Manual All Chapters
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hrk Bsc Physics Solution Manual All Chapters
 - Setting Reading Goals Hrk Bsc Physics Solution Manual All Chapters
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hrk Bsc Physics Solution Manual All Chapters

- Fact-Checking eBook Content of Hrk Bsc Physics Solution Manual All Chapters
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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