

- 1.28 We estimate that the length of a step for an average person is about 18 inches, or roughly 0.5 m.

Then, an estimate for the number of steps required to travel a distance equal to the circumference of the Earth would be

$$N = \frac{\text{Circumference}}{\text{Step Length}} = \frac{2\pi R_e}{\text{Step Length}} = \frac{2\pi(6.38 \times 10^6 \text{ m})}{0.5 \text{ m/step}} = 8 \times 10^7 \text{ steps}$$

or  $\boxed{N = 10^8 \text{ steps}}$

- 1.29 We assume an average respiration rate of about 10 breaths/minute and a typical life span of 70 years. Then, an estimate of the number of breaths an average person would take in a lifetime is

$$n = \left(10 \frac{\text{breaths}}{\text{min}}\right) (70 \text{ yr}) \left(\frac{3.156 \times 10^7 \text{ s}}{1 \text{ yr}}\right) \left(\frac{1 \text{ min}}{60 \text{ s}}\right) = 4 \times 10^8 \text{ breaths}$$

or  $\boxed{n = 10^9 \text{ breaths}}$

- 1.30 We assume that the average person catches a cold twice a year and is sick an average of 7 days (or 1 week) each time. Thus, on average, each person is sick for 2 weeks out of each year (52 weeks). The probability that a particular person will be sick at any given time equals the percentage of time that person is sick, or

$$\text{probability of sickness} = \frac{2 \text{ weeks}}{52 \text{ weeks}} = \frac{1}{26}$$

The population of the Earth is approximately 7 billion. The number of people expected to have a cold on any given day is then

$$\text{Number sick} = (\text{population})(\text{probability of sickness}) = (7 \times 10^9) \left(\frac{1}{26}\right) = 3 \times 10^8 \text{ or } \boxed{10^9}$$

- 1.31 (a) Assume that a typical intestinal tract has a length of about 7 m and average diameter of 4 cm. The estimated total intestinal volume is then

$$V_{\text{int}} = A\ell = \left(\frac{\pi d^2}{4}\right)\ell = \frac{\pi(0.04 \text{ m})^2}{4}(7 \text{ m}) = 0.009 \text{ m}^3$$

The approximate volume occupied by a single bacterium is

$$V_{\text{bacterium}} = (\text{typical length scale})^3 = (10^{-6} \text{ m})^3 = 10^{-18} \text{ m}^3$$

If it is assumed that bacteria occupy one hundredth of the total intestinal volume, the estimate of the number of microorganisms in the human intestinal tract is

$$n = \frac{V_{\text{int}}/100}{V_{\text{bacterium}}} = \frac{(0.009 \text{ m}^3)/100}{10^{-18} \text{ m}^3} = 9 \times 10^{17} \text{ or } n = \boxed{10^{18}}$$

- (b) The large value of the number of bacteria estimated to exist in the intestinal tract means that they are probably not dangerous. Intestinal bacteria help digest food and provide important nutrients. Humans and bacteria enjoy a mutually beneficial symbiotic relationship.

- 1.32 (a)  $V_{\text{int}} = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(1.0 \times 10^{-2} \text{ m})^3 = \boxed{4.2 \times 10^{-6} \text{ m}^3}$

- (b) Consider your body to be a cylinder having a radius of about 6 inches (or 0.15 m) and a height of about 1.5 meters. Then, its volume is

$$V_{\text{body}} = Ah = (\pi r^2)h = \pi(0.15 \text{ m})^2(1.5 \text{ m}) = 0.11 \text{ m}^3 \text{ or } \boxed{10^{-1} \text{ m}^3}$$

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**Julia Schneider**



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## **Table of Contents College Physics 9th Edition Answers**

1. Understanding the eBook College Physics 9th Edition Answers
  - The Rise of Digital Reading College Physics 9th Edition Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying College Physics 9th Edition Answers
  - 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 College Physics 9th Edition Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from College Physics 9th Edition Answers
  - Personalized Recommendations
  - College Physics 9th Edition Answers User Reviews and Ratings
  - College Physics 9th Edition Answers and Bestseller Lists
5. Accessing College Physics 9th Edition Answers Free and Paid eBooks
  - College Physics 9th Edition Answers Public Domain eBooks
  - College Physics 9th Edition Answers eBook Subscription Services

- College Physics 9th Edition Answers Budget-Friendly Options
- 6. Navigating College Physics 9th Edition Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - College Physics 9th Edition Answers Compatibility with Devices
  - College Physics 9th Edition Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of College Physics 9th Edition Answers
  - Highlighting and Note-Taking College Physics 9th Edition Answers
  - Interactive Elements College Physics 9th Edition Answers
- 8. Staying Engaged with College Physics 9th Edition Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers College Physics 9th Edition Answers
- 9. Balancing eBooks and Physical Books College Physics 9th Edition Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection College Physics 9th Edition Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine College Physics 9th Edition Answers
  - Setting Reading Goals College Physics 9th Edition Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of College Physics 9th Edition Answers
  - Fact-Checking eBook Content of College Physics 9th Edition Answers
  - 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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