## CHAPTER 1: Introduction, Measurement, Estimating

#### Responses to Questions

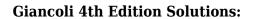
- (a) A particular person's foot. Merits: reproducible. Drawbacks: not accessible to the general public; not invariable (could change size with age, time of day, etc.); not indestructible.
  - (b) Any person's foot. Merits: accessible. Drawbacks: not reproducible (different people have different size feet); not invariable (could change size with age, time of day, etc.); not indestructible.

Neither of these options would make a good standard.

- The number of digits you present in your answer should represent the precision with which you
  know a measurement; it says very little about the accuracy of the measurement. For example, if you
  measure the length of a table to great precision, but with a measuring instrument that is not
  calibrated correctly, you will not measure accurately.
- The writers of the sign converted 3000 ft to meters without taking significant figures into account.
   To be consistent, the elevation should be reported as 900 m.
- 4. The distance in miles is given to one significant figure and the distance in kilometers is given to five significant figures! The figure in kilometers indicates more precision than really exists or than is meaningful. The last digit represents a distance on the same order of magnitude as the car's length!
- If you are asked to measure a flower bed, and you report that it is "four," you haven't given enough information for your answer to be useful. There is a large difference between a flower bed that is 4 m long and one that is 4 ft long. Units are necessary to give meaning to the numerical answer.
- 6. Imagine the jar cut into slices each about the thickness of a marble. By looking through the bottom of the jar, you can roughly count how many marbles are in one slice. Then estimate the height of the jar in slices, or in marbles. By symmetry, we assume that all marbles are the same size and shape. Therefore the total number of marbles in the jar will be the product of the number of marbles per slice and the number of slices.
- You should report a result of 8.32 cm. Your measurement had three significant figures. When you multiply by 2, you are really multiplying by the integer 2, which is exact. The number of significant figures is determined by your measurement.
- The correct number of significant figures is three: sin 30.0° = 0.500.
- 9. You only need to measure the other ingredients to within 10% as well.
- 10. Useful assumptions include the population of the city, the fraction of people who own cars, the average number of visits to a mechanic that each car makes in a year, the average number of weeks a mechanic works in a year, and the average number of cars each mechanic can see in a week.
  - (a) There are about 800,000 people in San Francisco. Assume that half of them have cars. If each of these 400,000 cars needs servicing twice a year, then there are 800,000 visits to mechanics in a year. If mechanics typically work 50 weeks a year, then about 16,000 cars would need to be seen each week. Assume that on average, a mechanic can work on 4 cars per day, or 20 cars a week. The final estimate, then, is 800 car mechanics in San Francisco.
  - (b) Answers will vary.

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**Zhe Xu** 



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#### **Table of Contents Giancoli 4th Edition Solutions**

- 1. Understanding the eBook Giancoli 4th Edition Solutions
  - The Rise of Digital Reading Giancoli 4th Edition Solutions
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Giancoli 4th Edition Solutions
  - $\circ \ Exploring \ Different \ Genres$
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Giancoli 4th Edition Solutions
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Giancoli 4th Edition Solutions
  - Personalized Recommendations
  - Giancoli 4th Edition Solutions User Reviews and Ratings
  - Giancoli 4th Edition Solutions and Bestseller Lists
- 5. Accessing Giancoli 4th Edition Solutions Free and Paid eBooks
  - o Giancoli 4th Edition Solutions Public Domain eBooks
  - Giancoli 4th Edition Solutions eBook Subscription Services
  - o Giancoli 4th Edition Solutions Budget-Friendly Options

- 6. Navigating Giancoli 4th Edition Solutions eBook Formats
  - o ePub, PDF, MOBI, and More
  - Giancoli 4th Edition Solutions Compatibility with Devices
  - Giancoli 4th Edition Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Giancoli 4th Edition Solutions
  - Highlighting and Note-Taking Giancoli 4th Edition Solutions
  - Interactive Elements Giancoli 4th Edition Solutions
- 8. Staying Engaged with Giancoli 4th Edition Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Giancoli 4th Edition Solutions
- 9. Balancing eBooks and Physical Books Giancoli 4th Edition Solutions
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Giancoli 4th Edition Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Giancoli 4th Edition Solutions
  - Setting Reading Goals Giancoli 4th Edition Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Giancoli 4th Edition Solutions
  - Fact-Checking eBook Content of Giancoli 4th Edition Solutions
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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