

EXERCISES

Section 1.2 Measurements and Units

12. **INTERPRET** This problem involves converting between different multiples of the same SI-based unit (i.e., the watt).

DEVELOP Before we can express 1000 MW in different multiples of the Watt, we need to know the meaning of the various prefixes. From Table 1.1, we find that the prefix M = 10^6 , k = 10^3 , and G = 10^9 . Notice that by dividing each of these equations by the right-hand side, we arrive at the following expressions for unity:

$$1 = \frac{10^6}{\text{M}}, \quad 1 = \frac{10^3}{\text{k}}, \quad 1 = \frac{10^9}{\text{G}}$$

Because multiplying or dividing any quantity by unity does not change the quantity in question, we can convert between the different multiples simply by multiplying or dividing by these expressions for unity, then canceling symbols that appear in both the numerator and denominator, just as with any ordinary algebraic formula.

EVALUATE (a) To express 1000 MW in terms of W, we simply multiply 1000 MW by the first expression above for unity. Thus, we find

$$1000 \text{ MW} = (1000 \text{ MW}) \left(\frac{10^6}{\text{M}} \right) = (10^3 \text{ M W}) \left(\frac{10^6}{\text{M}} \right) = 10^9 \text{ W}$$

where we have used $1000 = 10^3$. Thus $1000 \text{ MW} = 10^9 \text{ W}$. Notice how we have cancelled the prefix “M” in the immediate step.

(b) Using the same strategy to express 1000 MW in terms of kW, we find

$$1000 \text{ MW} = (1000 \text{ MW}) \left(\frac{10^6}{\text{M}} \right) \left(\frac{\text{k}}{10^3} \right) = (10^3 \text{ M W}) \left(\frac{10^6}{\text{M}} \right) \left(\frac{\text{k}}{10^3} \right) = 10^6 \text{ kW}$$

where we have used the algebraic relation that $1/1 = 1$ (i.e., $10^3/10^3 = 10^0/10^0$). Thus, $1000 \text{ MW} = 10^6 \text{ kW}$.

(c) Repeating the same strategy to express 1000 MW in terms of GW, we find

$$1000 \text{ MW} = (1000 \text{ MW}) \left(\frac{10^6}{\text{M}} \right) \left(\frac{\text{G}}{10^9} \right) = (1 \text{ M W}) \left(\frac{10^6}{\text{M}} \right) \left(\frac{\text{G}}{10^3} \right) = 1 \text{ GW}$$

Thus, $1000 \text{ MW} = 1 \text{ GW}$.

ASSESS Notice that we find the factor 10^9 in going from W in part (a) to GW in part (c), which is consistent with the definition of giga ($1 \text{ G} = 10^9$). You may be familiar with some of the prefixes from such things as computer memory, where a common amount of RAM for an old laptop computer is hundreds of Mb (512 Mb), whereas the hard drive can hold hundreds of Gb of data, and external storage devices can hold terabytes (Tb) of data.

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Table of Contents Essential University Physics Solution Manual Wolfson

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

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