

## 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.,  $10^3 \text{ k} = \text{k} 10^3$ ). 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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