

(b) Letting  $n$  represent the number of megabytes per novel, express the number of novels  $N_{\text{novels}}$  that can be stored on a CD in terms of the storage capacity of the CD:

$$N_{\text{novels}} = \frac{700 \text{ MB}}{n}$$

Assuming that a typical page in a novel requires 5 kB of memory, express  $n$  in terms of the number of pages  $p$  in a typical novel:

$$n = \left( 5 \frac{\text{kB}}{\text{page}} \right) p$$

Substitute for  $n$  in the expression for  $N_{\text{novels}}$  to obtain:

$$N_{\text{novels}} = \frac{700 \text{ MB}}{\left( 5 \frac{\text{kB}}{\text{page}} \right) p}$$

Assuming that a typical novel has 200 pages:

$$\begin{aligned} N_{\text{novels}} &= \frac{700 \text{ MB} \times \frac{10^3 \text{ kB}}{\text{MB}}}{\left( 5 \frac{\text{kB}}{\text{page}} \right) \left( 200 \frac{\text{pages}}{\text{novel}} \right)} \\ &= \boxed{7 \times 10^2 \text{ novels}} \end{aligned}$$

## Units

**20 •** Express the following quantities using the prefixes listed in Table 1-1 and the unit abbreviations listed in the table Abbreviations for Units. For example, 10,000 meters = 10 km. (a) 1,000,000 watts, (b) 0.002 gram, (c)  $3 \times 10^{-6}$  meter, (d) 30,000 seconds.

**Picture the Problem** We can use the metric prefixes listed in Table 1-1 and the abbreviations on page EP-1 to express each of these quantities.

(a)  $1,000,000 \text{ watts} = 10^6 \text{ watts} = \boxed{1 \text{ MW}}$

(c)  $3 \times 10^{-6} \text{ meter} = \boxed{3 \mu\text{m}}$

(b)  $0.002 \text{ gram} = 2 \times 10^{-3} \text{ g} = \boxed{2 \text{ mg}}$

(d)  $30,000 \text{ seconds} = 30 \times 10^3 \text{ s} = \boxed{30 \text{ ks}}$

**21 •** Write each of the following without using prefixes: (a) 40  $\mu\text{W}$ , (b) 4 ns, (c) 3 MW, (d) 25 km.

# Tipler 6e Solution Manual

**David Mills**



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