

(b) Relate the number of barrels N of crude oil imported annually to the yearly consumption of gasoline Y and the number of gallons of gasoline n that can be made from one barrel of crude oil:

Substitute numerical values and estimate N :

$$N = \frac{fY}{n} = \frac{fG\Delta t}{n}$$

where f is the fraction of the oil that is imported.

$$N = \frac{(0.5) \left(6 \times 10^8 \frac{\text{gallons}}{\text{d}} \right) \left(365.24 \frac{\text{d}}{\text{y}} \right)}{19.4 \frac{\text{gallons}}{\text{barrel}}} \\ \approx \boxed{6 \times 10^8 \frac{\text{barrels}}{\text{y}}}$$

Convert barrels/y to barrels/d to obtain:

$$N = 6 \times 10^8 \frac{\text{barrels}}{\text{y}} \times \frac{1 \text{ y}}{365.24 \text{ d}} \\ \approx \boxed{2 \times 10^7 \frac{\text{barrels}}{\text{d}}}$$

19 •• [SSM] A megabyte (MB) is a unit of computer memory storage. A CD has a storage capacity of 700 MB and can store approximately 70 min of high-quality music. (a) If a typical song is 5 min long, how many megabytes are required for each song? (b) If a page of printed text takes approximately 5 kilobytes, estimate the number of novels that could be saved on a CD.

Picture the Problem We can set up a proportion to relate the storage capacity of a CD to its playing time, the length of a typical song, and the storage capacity required for each song. In (b) we can relate the number of novels that can be stored on a CD to the number of megabytes required per novel and the storage capacity of the CD.

(a) Set up a proportion relating the ratio of the number of megabytes on a CD to its playing time to the ratio of the number of megabytes N required for each song: Solve this proportion for N to obtain:

$$\frac{700 \text{ MB}}{70 \text{ min}} = \frac{N}{5 \text{ min}}$$

$$N = \left(\frac{700 \text{ MB}}{70 \text{ min}} \right) (5 \text{ min}) = \boxed{50 \text{ MB}}$$

Tipler Physics Solutions Chapter 9

Victor M. Corman



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