

Substitute numerical values and evaluate N :

$$N = \frac{(8.5 \text{ in}) \left(2.540 \frac{\text{cm}}{\text{in}} \right)}{\left(5 \text{ nm} \times \frac{10^{-9} \text{ m}}{\text{nm}} \right) (15)} = \boxed{3 \times 10^6}$$

17 **→** There is an environmental debate over the use of cloth versus disposable diapers. (a) If we assume that between birth and 2.5 y of age, a child uses 3 diapers per day, estimate the total number of disposable diapers used in the United States per year. (b) Estimate the total landfill volume due to these diapers, assuming that 1000 kg of waste fills about 1 m³ of landfill volume. (c) How many square miles of landfill area at an average height of 10 m is needed for the disposal of diapers each year?

Picture the Problem We'll assume a population of 300 million and a life expectancy of 76 y. We'll also assume that a diaper has a volume of about half a liter. In (c) we'll assume the disposal site is a rectangular hole in the ground and use the formula for the volume of such an opening to estimate the surface area required.

(a) Express the total number N of disposable diapers used in the United States per year in terms of the number of children n in diapers and the number of diapers D used by each child per year:

$$N = nD \quad (1)$$

Use the estimated daily consumption and the number of days in a year to estimate the number of diapers D required per child per year:

$$\begin{aligned} D &= \frac{3 \text{ diapers}}{\text{child} \cdot \text{d}} \times \frac{365.24 \text{ d}}{\text{y}} \\ &\approx 1.1 \times 10^3 \text{ diapers/child} \cdot \text{y} \end{aligned}$$

Use the assumed life expectancy to estimate the number of children n in diapers yearly:

$$\begin{aligned} n &= \left(\frac{2.5 \text{ y}}{76 \text{ y}} \right) (300 \times 10^6 \text{ children}) \\ &\approx 10^7 \text{ children} \end{aligned}$$

Substitute numerical values in equation (1) to obtain:

$$\begin{aligned} N &= (10^7 \text{ children}) \left(1.1 \times 10^3 \frac{\text{diapers}}{\text{y}} \right) \\ &\approx \boxed{1.1 \times 10^{10} \text{ diapers}} \end{aligned}$$

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Paul A. Tipler, Gene Mosca



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