## Exercise 1.8

While driving in an exotic foreign land you see a speed limit sign that reads 180,000 furlongs per fortnight. How many miles per hour is this? (One furlong is $\frac{1}{8}$ mile, and a fortnight is 14 days. A furlong originally referred to the length of a plowed furrow.)

## Solution

Let's find out.

$$
\frac{180000 \text { furlongs }}{1 \text { fortnight }} \times \frac{\frac{1}{8} \text { miles }}{1 \text { furlong }} \times \frac{1 \text { fortnight }}{14 \text { diss }} \times \frac{1 \text { hours }}{24 \text { hour }}=\frac{(180000)\left(\frac{1}{8}\right)(1)(1) \text { miles }}{(1)(1)(14)(24) \text { hour }} \approx 67.0 \frac{\text { miles }}{\text { hour }}
$$

