## Lesson 2 Summary

There are 12 inches in a foot, so we can say that for every 1 foot, there are 12 inches, or the ratio of feet to inches is $1: 12$. We can find the unit rates by dividing the numbers in the ratio:

$$
1 \div 12=\frac{1}{12}
$$

so there is $\frac{1}{12}$ foot per inch.

$$
12 \div 1=12
$$

so there are 12 inches per foot.

The numbers in a ratio can be fractions, and we calculate the unit rates the same way: by dividing the numbers in the ratio. For example, if someone runs $\frac{3}{4}$ mile in $\frac{11}{2}$ minutes, the ratio of minutes to miles is $\frac{11}{2}: \frac{3}{4}$.
$\frac{11}{2} \div \frac{3}{4}=\frac{22}{3}$, so the person's
pace is $\frac{22}{3}$ minutes per mile.
$\frac{3}{4} \div \frac{11}{2}=\frac{3}{22}$, so the person's
speed is $\frac{3}{22}$ miles per minute.

