## **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:

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

$$12 \div 1 = 12$$

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

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

$$\frac{3}{4} \div \frac{11}{2} = \frac{3}{22}$$
, so the person's

pace is  $\frac{22}{3}$  minutes per mile.

speed is  $\frac{3}{22}$  miles per minute.