

# Chapter 1 Lesson 6

## Equivalent Ratios

Method 1 → Use Unit Rates

20 miles in 5 hours

$$\frac{20 \text{ mi}}{5 \text{ hrs}} = \frac{4 \text{ mi}}{1 \text{ hr}}$$

Handwritten annotations: A blue arrow above the fraction points from 20 to 4 with  $\div 5$  written above it. A blue arrow below the fraction points from 5 to 1 with  $\div 5$  written below it.

45 miles in 9 hours

$$\frac{45 \text{ mi}}{9 \text{ hrs}} = \frac{5 \text{ mi}}{1 \text{ hr}}$$

Handwritten annotations: A blue arrow above the fraction points from 45 to 5 with  $\div 9$  written above it. A blue arrow below the fraction points from 9 to 1 with  $\div 9$  written below it.

When simplifying with the cake method if ANY ROWS match the two ratios are equivalent

Method 2 → Use Equivalent Fractions

$$\frac{3 \text{ free throws}}{7 \text{ attempts}} = \frac{9 \text{ free throws}}{14 \text{ attempts}}$$

Handwritten annotations: A blue arrow above the fraction points from 3 to 9 with  $\times 3$  written above it. A blue arrow below the fraction points from 7 to 14 with  $\times 2$  written below it.

\* If the number you multiply or divide by is the same they are equal.

No, they are not equivalent

\* If they are different they are not equal