

Comparing Rates

Name _____

Key Concept and Vocabulary



Motorcyclist

Compare the numerators if you have a common denominator.



60 is less than 80.

$$\frac{60 \text{ miles}}{1 \text{ hour}} < \frac{80 \text{ miles}}{1 \text{ hour}}$$

So, the speed of the motorcyclist is faster.

Because < is used, the second rate is faster than the first rate.



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Check your answers at BigIdeasMath.com.

1.

Horse



Faster

Slower

$$\frac{50 \text{ miles}}{1 \text{ hour}} > \frac{30 \text{ miles}}{1 \text{ hour}}$$

2.

Bicyclist



Faster

Slower

$$\frac{24 \text{ miles}}{1 \text{ hour}} < \frac{25 \text{ miles}}{1 \text{ hour}}$$

3.

Yacht



$$\frac{75 \text{ miles}}{1 \text{ hour}} > \frac{50 \text{ miles}}{1 \text{ hour}}$$

Faster

Slower

4.

Runner



Faster

Slower

$$\frac{1.6 \text{ miles}}{1 \text{ hour}} < \frac{16 \text{ miles}}{1 \text{ hour}}$$