

The Power of Per

Ratio and rate: Can you tell the difference?

In the table below, mark whether each statement refers to a rate or just a ratio.

Tortoises walk about 100 feet every 5 minutes.	<input checked="" type="checkbox"/> rate	<input type="checkbox"/> just a ratio
Only three of the sodas were sugar free, and nine were regular.	<input type="checkbox"/> rate	<input checked="" type="checkbox"/> just a ratio
My internet connection can download two full-length movies in about 10 minutes.	<input type="checkbox"/> rate	<input type="checkbox"/> just a ratio
The Berkeley Yellow Jackets won 22 out of 25 games this season.	<input type="checkbox"/> rate	<input type="checkbox"/> just a ratio
Famous supermodels often make \$250 per hour.	<input type="checkbox"/> rate	<input type="checkbox"/> just a ratio
At the 2008 Olympics, Usain Bolt ran 100 meters in 9.69 seconds.	<input type="checkbox"/> rate	<input type="checkbox"/> just a ratio

Two different kinds of units used: length and time.
This is a **RATE**.

Both of the numbers are referring to soda.
This is just a **RATIO**.

Unit Rates: They communicate better and are easier too.



A **unit rate** has a value of 1 for the second number. For example, 65 miles **per** 1 hour is a unit **rate**. So is this price for strawberries: \$2.49 for 1 dry pint.

Two more examples of unit **rates**:

Maggy types 45 words per minute.

Dominic scores about 16 points per game.



These two examples are not unit **rates**—yet. Work with a partner to calculate the unit **rate**. Show your work.

The hose leaks 4 gallons of water every 5 hours.

\$13.50/6 rides on the subway.