

Comparing Unit Rates

* \$ goes on top
\$ has 2 dec. places

- Unit rate compares a quantity to 1.
- Equivalent rates have the same unit rate.
- Determine if each pair of rates is equivalent. =

<p>\$60 for 75 cookies \$72 for 90 cookies</p> $\frac{\$60}{75 \text{ cookies}} = \frac{\$0.80}{1c}$	=	<p>25 beats in 20 seconds 75 beats in 50 seconds</p> $\frac{25b}{20s} = \frac{1.25b}{1s} \quad \frac{75b}{50s} = \frac{1.5b}{1s}$
		≠

- Two compare two or more rates, find the Unit Rate of each.
- Then, determine which is greater.
- When you find the price per item, it is called unit Price or unit Cost.
- When finding unit cost, the \$ money is always the numerator.
- Mrs. Cooper grades 120 math tests in 3 hours. Mrs. Parker grades 100 math tests in 2 hours. Who grades math tests at a quicker rate?

Mrs. Cooper	compare	Mrs. Parker
$\frac{120 \text{ tests}}{3h}$	<	$\frac{100 \text{ tests}}{2h}$
Unit Rate 40 tests per hour		Unit Rate 50 tests per hour

- Betsy and Catalina start a business making bracelets. Betsy works for 8 hours and makes 20 bracelets. Catalina makes 12 bracelets in 4 hours. Who makes more bracelets per hour?

Betsy

$$\frac{20b}{8h} = \frac{2.5b}{1h}$$

Catalina

$$\frac{12b}{4h} = \frac{3b}{1h}$$

Catalina can make $\frac{1}{2}$ bracelet more per hour.