Cross multiplication
When do you use cross multiplication?
2 equivalent fraction
example

example


A rate is a comparison of two quantities measured in

ratioses same
Example: $\$ 1.79$ per 100 grans


Example: 72 beats per minute $O R<2$


5 mins ?
that includes the two different units. ....a rate $\qquad$
 be expressed as a pent because a percent is a ratio that expressed in the Same

Unit Rate (conversion rate)
...a unit rate is:
How much/many for one quantity
Example


Carmen can read 18 books in 3 days. How many can she read in 1 day?

$$
\begin{aligned}
& \frac{18 \text { books }}{3 \text { day } s} \\
& =6 \text { books / day }
\end{aligned}
$$

Cary scored 8 goals in 4 games, what is her rate of goal scoring?

$$
\begin{aligned}
& \frac{8 \text { goals }}{\text { Lames }} \\
& =2 \text { goals/game }
\end{aligned}
$$

Mr. Hennaing uses 51.4 litres of gas to travel 658 km . What was his rate of fuel consumption?
unit rate
51.4 litres $\div 658 \mathrm{~km}$
0.078 litres $/ \mathrm{km}$

$$
\text { His fuel consumption is } 0.078 \mathrm{htres} / \mathrm{Km} \text {. }
$$

