Comparing
two numbers of the
same unit
3 ways to write

a a:b a tob

trucks 
$$\frac{18}{40}$$

minimum  $\frac{18}{40}$ 

part to part

cars  $\frac{6}{12}$ 

part to total

 $\frac{16}{30} = \frac{8}{15} \neq \frac{15}{8}$ 

$$\frac{16}{30} = \frac{8}{15}$$

$$\frac{18}{4} = \frac{9}{2}$$
We don't change
Ratios to mixed
numbers

on't change  

$$y = \frac{x}{3}$$
  
 $y = \frac{x}{3}$   
 $y = 2$   
 $y = 12$ 

$$\begin{array}{c|c}
7.5 & 9 \\
\hline
15 & 15
\end{array}
\qquad
\begin{array}{c}
9 & 9 \\
\hline
17 & 18
\end{array}$$

$$136 \qquad 135 \qquad \begin{array}{c}
1. & \text{Common } \\
\hline
Denominator \\
2. & \text{Equivalent } \begin{pmatrix} 1 \\ 2 \end{pmatrix}
\end{array}$$
Values

## 8.2 Rates

Using unit Rates

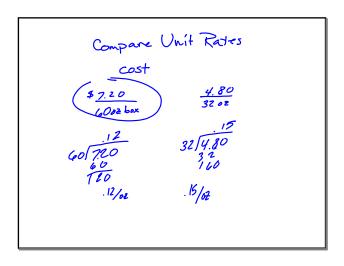
120 miles to mind from Stephen

Speed limit is 60 miles per lar

$$\frac{60}{1} = \frac{120}{2h6}$$

Cost \$1.50/1b and I buy 15/lbs

 $\frac{1.50}{15} = \frac{622.50}{15/lb}$ 



Ratios Rates

P 404-405
4,8,12,16,20,24,28,29-33411

Q 409-411
4,8,12,16,20,24,28,32,36,40