

Pg 180-181; 1-3; 5-11; 13-19(0); 20, 21; 23-27(0); 28

- | | | |
|-------------------|-------------------|-------------------|
| 1) ratio | 13) $\frac{1}{4}$ | 27) 8 oz./serving |
| 2) different | 15) $\frac{3}{5}$ | 28) 3 books/month |
| 3) one | 17) $\frac{1}{3}$ | |
| 5) $\frac{4}{5}$ | 19) $\frac{4}{5}$ | |
| 6) $\frac{6}{5}$ | 20) $\frac{1}{2}$ | |
| 7) $\frac{2}{3}$ | 21) $\frac{5}{8}$ | |
| 8) $\frac{7}{5}$ | 23) 15 mi./day | |
| 9) 0.05 mi/min | 25) \$0.40/can | |
| 10) \$.06 tea bag | | |
| 11) 231 miles | | |

3.8 cont. Ratios & Rates

Dec. 14, 2006

You keep Track of your car's mileage & gas & from the table below.

Number of Miles	290	242	196	237	184
Number of Gallons	12.1	9.8	8.2	9.5	7.8

Find the ^{unit Rate} average mileage for a gallon of gas.

$$\text{Unit Rate} = \frac{\text{mileage}}{\text{gallons}} = \frac{1149}{47.4} = \underline{\underline{24.24 \text{ mi/gal}}}$$

Convert units
ex1) Convert

Which one is?
Bigger
⇒ that gets a 1

3 hours into minutes.

$$\boxed{1 \text{ hours}} = \boxed{60 \text{ min.}}$$

<u>3 hr</u>	<u>60 min</u>
1 hr	<u>1 hr</u>

$$= \underline{\underline{180 \text{ min}}}$$

Acts as a Multiplication Bar
Acts as a fraction Bar

ex2) Convert

72 inches into feet.

$$* \boxed{12 \text{ in}} = \boxed{1 \text{ ft}}$$

$$\begin{array}{|c|c|} \hline \text{72 in} & 1 \text{ ft} \\ \hline \text{[scribble]} & 12 \text{ in} \\ \hline \end{array} = \underline{\underline{6 \text{ ft}}}$$

ex3) Convert

8 pounds into ounces.

$$* \boxed{1 \text{ lbs}} = \boxed{16 \text{ oz}}$$

$$\begin{array}{|c|c|} \hline \text{8 lbs} & 16 \text{ oz} \\ \hline \text{[scribble]} & 1 \text{ lbs} \\ \hline \end{array} = \underline{\underline{128 \text{ oz}}}$$

Use Rates cont. from y. day
we found that the car can
go 24.24 mi/gal.

How far can we go with 18 gal
Alg. way ... A.K.A. The Book Way.

$$(24.24 \text{ mi/gal})(18 \text{ gal}) = 436.32 \text{ mi}$$

$$\begin{array}{|c|c|} \hline 18 \text{ gal} & 24.24 \text{ mi} \\ \hline \text{~~~~~} & 1 \text{ gal} \\ \hline \end{array} = \underline{\underline{436.32 \text{ mi}}}$$

Money

We are going to Mexico, &
we want to exchange
\$150.00 into Pesos.

If the exchange Rate is
9.242 pesos for 1 US Dollar,
How many Pesos?

\$150.00	<u>9.242 Pesos</u>
 	<u>\$ 1</u>

$$= 462.1 \text{ Pesos}$$

O.T.L.

① correct y-day's O.T.L.

② pg 180-181; 4, 29-43(all)

16 problems total