

# 5.5 Solving Application Proportions

Recall key words to indicate a ratio or rate:

in for on per from to

Steps for Application Problems

- 1) Read
- 3) Estimate

- 4) Solve 5) State the 6) check

Ex 1 Solve

MATCH THE UNITS

Mike's car can travel 163 miles on 6.4 gallons of gas.

How far oan it travel on a full tank of 14 gallons of gas?

Round to the nearest whole mile.

miles gallons

163.14=6.4x

The car can travel miles w/ a full tax

#### Ex 2 Solve

A newspaper report says that 7 out of 10 people surveyed watched the news on TV. At that rate, how many of the 3200 people in town would you expect to watch the news?

$$\frac{PP^{1}}{total} = \frac{x}{3200}$$

$$\frac{32}{x^{7}}$$

$$10x = 7.3200$$

$$\frac{10x}{10} = 22400$$

2,240 ppl are expected to watch the news in town

# Feeding Hummingbirds-RDA

#### CW/HW

### **Exit Card:**

An advertisement says that 9 out of 10 dentists recommend sugarless gum. If the ad is true, how many of the 60 dentists in our city would recommend sugarless gum?

### Challenge

5. A dentist sees a patient every 20 minutes? He works an average 60 hours per week. How many patients does he see in a year? He takes 3 weeks of vacation. **Round your answer down.**