Warm-Up

Your purchase totals \$32.18, to find the sales tax use 0.075

32.18

How much was just the sales tax?

\$2.41

How much was the total sales?

+ 32:48 + 32:48

Comments on Ch 4 Test

5.1 Ratios

What is a ratio?

- · a comparison between two quantities
- · have same units

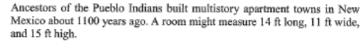
Writing Ratios (three options)

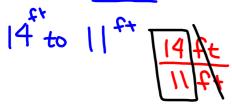
The ratio of \$7 to \$3 can be written as follows:

a) 7 to 3 b) 1:3 c)
$$\frac{7}{3}$$

Example 1 Write as Fractions

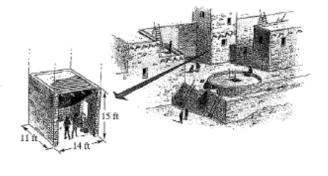
a) Ratio of length to width





b) Ratio of width to height





Any ratio can be written as a <u>fraction</u>. Therefore you COULD write it in <u>lowest</u> <u>terms</u>.

Ex 2 Writing a ratio in lowest terms

a) 60 days to 20 days

b) 50 ounces of medicine to 120 ounces of medicine

$$\frac{50 \text{ oz}}{120 \text{ oz}} = \frac{50}{120} = \frac{5}{12}$$

Ex 3 Decimals in a Ratio

The price of a Sunday newspaper increased from \$1.50 to \$1.75. Find the ratio of the increase in price to the original price.

$$\frac{\$0.25 + 0 \ \$1.50}{\$1.50} = \frac{1}{6}$$

Ex 4 Mixed Numbers in Ratios

Write each ratio as a comparison of whole numbers in lowest terms.

a) 2 days to
$$2\frac{1}{4}$$
 days
$$2 = 2 \div 2\frac{1}{4}$$

Ex 5 Ratios with Unit Measurement

a) Write the ratio of the length of the shorter board on the left to the length of the longer board on the right. Compare in inches.

12 in
$$\rightarrow$$
 1 ft
24 in \rightarrow 2 ft

24 in \rightarrow 2 ft

Short to long
left to right

24 in to 30in

b) Write the ratio of 28 days to 3 weeks

Measurement Comparisons

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Length	Capacity (Volume)
I foot = 12 inches	1 pint = 2 cups
1 yard = 3 feet	1 quart = 2 pints
1 mile = 5280 feet	1 gallon = 4 quarts
Weight	Time
1 pound = 16 ounces	1 minute = 60 seconds
1 ton = 2000 pounds	1 hour = 60 minutes
	1 day = 24 hours
	1 week = 7 days