

Math 7 - Unit 3

Day 1 - Ratio Review

Lesson Objectives:

- I can simplify ratios with like or different units.

A **ratio** is a comparison of two numbers by division.

If a gallon of paint contains 2 parts of blue paint and 4 parts of yellow paint, then the ratio comparing the blue paint to the yellow paint would be:

$$2 \text{ to } 4 \quad 2:4 \quad \frac{2}{4} \quad \frac{1}{2}$$

1 to 2 *1:2*

Ratios are most often expressed as fractions in simplest form.

Express each ratio as a fraction in simplest form and as a decimal.

- a. 3 broken eggs out of 12 in the carton $\frac{3}{12} = \frac{1}{4}$
- b. \$25 tip on a \$125 meal

$$\frac{25}{125} = \frac{1}{5}$$

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Write the following ratio in three ways.

- c. 10 roses out of 12 flowers $10:12$
 $\frac{5}{6}$ *5 to 6* $5:6$
- d. 18 DVD's out of 24 DVD's $18:24$
 $3 \text{ to } 4$ $3:4$ $\frac{3}{4}$

Write the following ratios as fractions in simplest form, getting both units the same.

- e. 21 inches to 2 yards
21 inches to 6 feet
21 inches to 72 inches
 $\frac{21}{72} = \frac{7}{24}$
- f. 5 feet to 5 yards
 $5 \text{ ft to } 15 \text{ ft}$
 $\frac{5}{15} = \frac{1}{3}$
- $\frac{5 \text{ yds}}{1} \cdot \frac{3 \text{ ft}}{1 \text{ yd}} = 15 \text{ ft}$

Homework

Ratio Review WKS

* Individual Think Time *



What to do if you get stuck...

- Reread the problem. Did you write it down correctly?
- Reread your notes. Is there a problem similar that we did together in class?
- Find a problem similar in your book. Try this one to see if it helps.
- Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

