

Name

2.6

Alg I.

Write Ratios and Proportions

I can find ratios and write and solve proportions

Ratio: Uses division to compare two quantities

a to b     $a:b$      $\frac{a}{b}$

\* The ratio of a to b

Ch. 2 Quiz 9/21 or 9/22 Ch. 1/2

Test 9/23 or 9/26

Example 1:

$$1) \frac{44 \div 4}{52 \div 4} = \frac{11}{13}$$

$$2) \frac{44}{44+52} = \frac{44 \div 4}{96 \div 4} = \frac{11}{24}$$

Proportion: An equation that states that two ratios are equal

$$\frac{a}{b} = \frac{c}{d}$$

\* a is to b as c is to d

Two Ways to Solve Proportions:

- Cross Multiply
- Guess and Check

Example 2:

$$3) \frac{w \div 5}{35 \div 5} = \frac{4}{7}$$

$w = 20$

$$\frac{w}{35} = \frac{4}{7}$$

$w = 140$

$w = 20$