

# b.1 Ratio

March 07, 2007

Ratio: a Relationship between  
2 Numbers through Division

Show the Ratio between 3 & 2.

$$\frac{3}{2} = 3 \div 2 = \underline{3:2} = 1.5 \quad \underline{\underline{3 \text{ to } 2}}$$

What is the Ratio that  
Compares 14 to 100

$$\frac{14}{100} = \frac{7}{\underline{\underline{50}}}$$

$$14:100 \Leftrightarrow 7:50$$

Equivalent Ratios

$$\frac{7}{50} = \frac{14}{100} = \frac{28}{200}$$

↑ But  $\frac{7}{50}$  is  
in the simplest  
form



Write a Ratio that compares the lengths in Simplest Form.

$$\frac{\cancel{60}}{\cancel{100}} = \frac{\cancel{6}3}{\cancel{10}5}$$

$$= \frac{3}{5}$$

find the value of  $x$  to  
make the Ratio  $\frac{x}{30}$   
equal to  $\frac{1}{3}$

$$\frac{x}{30} = \frac{1}{3}$$

*(Note: The original image has a red 'X' over the equals sign and blue arrows with '\*10' pointing to the denominators 30 and 3.)*

$$\underline{x = 10}$$

$$x \cdot 3 = 30 \cdot 1$$

$$\frac{3x}{3} = \frac{30}{3}$$

$$\underline{\underline{x = 10}}$$

O.T.L.

① Pg 177: written: 1-5(u)

Pg 178: 6-20(e); 21-26(a)