January 24, 2012

Get out your homework...

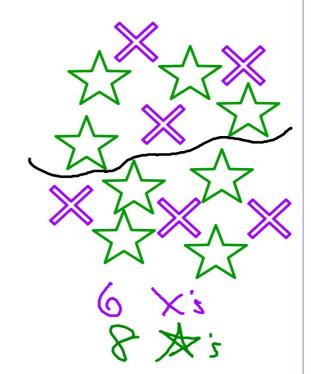
RED book page 58 #1-11 all

1/24 - Testing and solving proportions

What is a ratio?
Comparison of
2 numbers

How do you write it?

$$\frac{6}{8} = \frac{3}{4}$$
6:8



If two ratios can both measure the same same things, they are called equivalent.

$$\frac{3}{4}$$
 and $\frac{6}{8}$

$$\frac{2}{3}$$
 and ?? $\frac{4}{6}$, $\frac{6}{9}$, $\frac{8}{12}$, $\frac{20}{30}$,...

Are the given ratios equivalent?

$$\frac{5}{8}$$
 and $\frac{20}{32}$

 $\frac{5}{8} \cdot \frac{4}{4} \cdot \frac{20}{32}$ $\frac{4}{5} \cdot \frac{2}{3} \cdot \frac{8}{15}$ $\frac{3}{2} \cdot \frac{?}{3} \cdot \frac{4}{6}$ Wes, you have this you times by are different are different

$$\frac{4 \cdot 2}{5 \cdot 3} \quad \frac{8}{15}$$

$$\frac{3}{2}$$
 and $\frac{4}{6}$

What does the variable have to equal in order for the ratios to be equivalent?

$$\frac{3}{8} \cdot \frac{4}{32}$$

$$12 = \times$$

$$X = (2)$$

$$\frac{4 \cdot 2}{b \cdot 2} \frac{8}{20}$$

$$10 = 6$$

$$6 = 6$$

$$\frac{3}{2} \cdot \frac{3}{and} \cdot \frac{9}{n}$$

$$n = 6$$

$$6 = 6$$

Solve each proportion...

$$\frac{3 \cdot 3}{8 \cdot 3} = \frac{x}{24}$$

 $9=\times$ "short cut

$$\frac{4}{b} \times \frac{5}{6} \quad \text{Cross-}$$

$$\frac{5b}{5} = 24$$

$$\frac{5b}{5} = 4 + \frac{4}{5}$$
No decimal answers

$$\frac{3}{2} \times \frac{10}{n}$$

$$\frac{3}{2} \times \frac{10}{n}$$

$$\frac{3}{3} = \frac{20}{3}$$

$$\frac{3}{3} = 6\frac{3}{3}$$

$$\frac{c}{6} \times \frac{8}{9}$$

$$\frac{c}$$

Homework:

GREEN Worksheet 1
1-16 all

due Wednesday