UNIT 1 – DAY 12 NOTES RATIOS AND PROPORTIONS

Ratio: Uses division to compare two quantities.



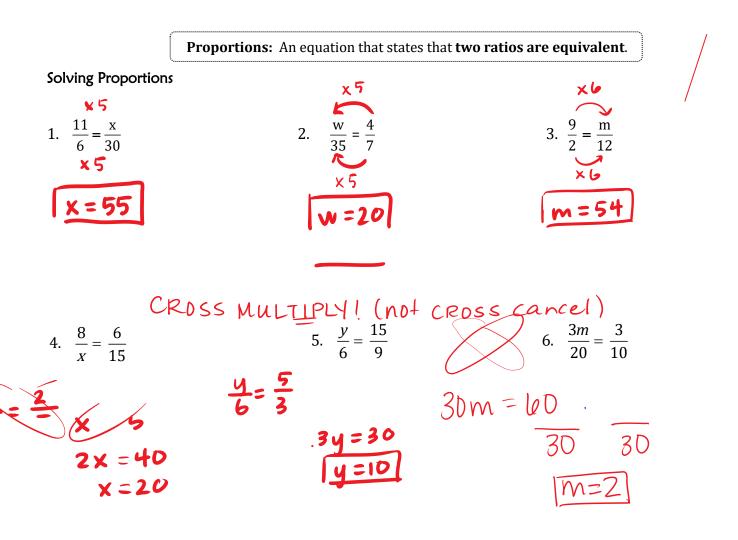
- **Ex 1**: You can write the ratio of two quantities *a* and *b* in three ways:
 - 1. **a to b** 2. **a:b** 3. <u>a</u>

Ex 2: A volleyball team plays 14 home matches and 10 away matches. Of those games they win 17 of them.

- a. Find the total number of games the team played?
- b. Find the ratio of home matches to away matches:
- b. Find the ratio of home matches to ALL matches:
- c. Find the ratio of wins to losses:





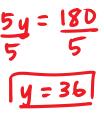


Putting Phrases into proportions: Write the sentence as a proportion. Then solve.

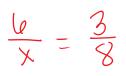
- 1. 5 is to 7 as y is to 49
- $\frac{5}{7} = \frac{9}{49} \qquad \frac{79}{7} = \frac{245}{7}$ y = 35

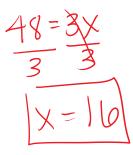
2. y is to 20 as 9 is to 5

$$\frac{\mathbf{y}}{20} = \frac{\mathbf{q}}{5}$$



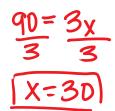
3. 6 is to x as 3 is to 8





4. 3 is to 9 as 10 is to x





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