

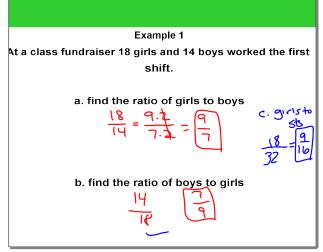
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<u>Ratio</u> - the comparison of a number "a" and a nonzero number "b"

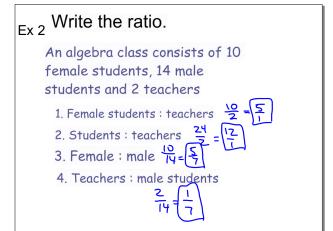
can be written in three ways ...

- (.) a
- 2.) a:b
- 3) a to b

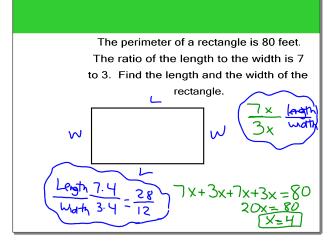
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Ratios & Proportions

Proportion ... an equation that states two ratios are equal

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Using

Cross Product Property

To solve for side lengths of similar polygons

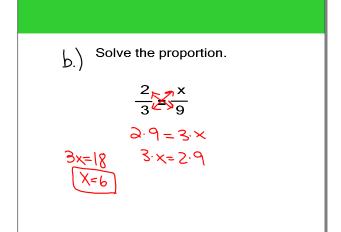
If $\frac{a}{b} = \frac{c}{d}$, then ad = bc

We'll use this all unit long...

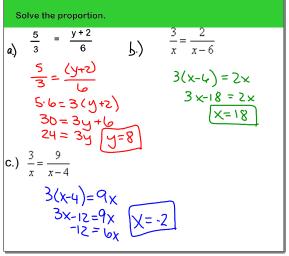
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Solve the proportion.

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Similar Polygons: two polygons are similar if corresponding angles are

congruent and corresponding side

lengths are proportional

Symbol for similar: ~

Solve the proportion.

- 1. <u>4 = 10</u> 9 x
- 4. <u>21 = x</u> 27 18
- 2. <u>5 = 6</u>
- 5. <u>15 = 20</u>
- 3. 5 = 2

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Similarity Statement:

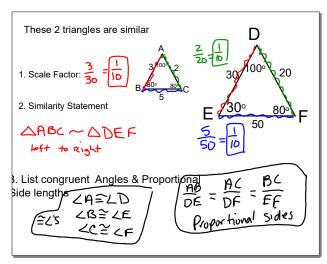
6. <u>26 = 39</u> <u>b</u> 9

What does proportional mean???

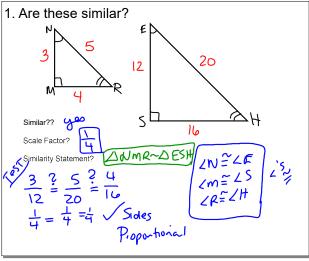
DABC ~ DDEF

Scale Factor: If two polygons are similar, then the ratio of the lengths of two corresponding sides is the scale factor.

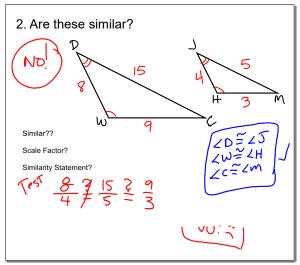
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Sometimes the book is tricky and flips pictures around...watch out HW #4.