Math 090
Chapter 10: PROPORTIONS
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Proportions   MATH FACTS pages 129 – 130
- **DEFINITION:** A proportion is a sentence that says that
two ratios are equal. If the cross products are the same, the proportion
is true.
- **CROSS MULTIPLYING (at last)**
  Valid Proportions
    Tell whether each proportion is true:

$$\frac{1}{2} = \frac{2}{3}$$

$$\frac{6}{8} = \frac{738}{984}$$

  Finding the value of x
    Solve for x:

$$\frac{3}{5} = \frac{12}{x} \qquad\qquad \frac{x}{7} = 1$$

$$\frac{1}{2} = \frac{x}{5} \qquad\qquad \frac{x}{4} = 0$$

$$\frac{x}{4} = \frac{7}{\sqrt{6.25}} \qquad\qquad \frac{x}{0.6} = \sqrt{\frac{4}{9}}$$

- **APPLICATIONS**
  Word problems.
- **SIMILAR FIGURES**
  Maps, Plans etc.

PREPARE FOR THE QUIZ AT HOME:
WORKBOOK pages 97 ⇨ 104
WORKBOOK Practice Quiz #10 pages 105 & 106

Proportions solve most of real life problems.   There are infinite examples of quantities that are proportionally related.