ratio - A comparison of two quantities

proportion - an equation stating that two ratios are equal

Example 1
Determine whether $\dfrac{7}{8}$ and $\dfrac{49}{56}$ are equivalent ratios

Names for cross products in a proportion:

$$\frac{a}{b} = \frac{c}{d} \longrightarrow \text{ad are the extremes}$$

bc are the means

Example 2 $$\frac{2}{2.5} = \frac{16}{20}$$

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

Example 3

Solve the following proportion using cross products:

$$\frac{n}{12} = \frac{3}{8}$$

$$\frac{x+4}{12} = \frac{3}{4}$$