Proportion

A proportion is a statement that two ratios are equal.

$$\frac{a}{b} = \frac{c}{d}$$

$$a:b=c:d$$

Determine the means and extremes for the following proportions

$$\frac{2}{x} = \frac{4}{y}$$

$$3: a = 6: b$$

$$\frac{m}{6} = \frac{4}{n}$$

$$k: 4 = 2: l$$

Given the proportion...

$$\frac{a}{b} = \frac{c}{d}$$

The following are equivalent statements.

1)
$$ad = bc$$

2)
$$\frac{b}{a} = \frac{d}{c}$$

3)
$$\frac{d}{c} = \frac{b}{a}$$

1)
$$ad = bc$$
 2) $\frac{b}{a} = \frac{d}{c}$ 3) $\frac{d}{c} = \frac{b}{a}$ 4) $\frac{a+b}{b} = \frac{c+d}{d}$

Given the proportion...

$$\frac{4}{7} = \frac{x}{y}$$

Create four equivalent statements

multiply means and extremes

flip numerators with denominators

switch means and extremes

add denominator value to numerator