

Proportions and Properties of Proportions

A **proportion** is an equation saying that two ratios are equal. It is written in the form of $\frac{a}{b} = \frac{c}{d}$, where b and d are not equal to zero. The following are some transformed proportions:

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

Each of the numbers in the proportion $\frac{a}{b} = \frac{c}{d}$ is identified. The first term is a , b is the second term, c is the third term, and d is the fourth term.

$$\frac{\text{numerator}}{\text{denominator}} = \frac{\text{numerator}}{\text{denominator}}$$

In any proportion, the first and fourth terms are called the **extremes**, and the second and third terms are called the **means**. Proportions are also written in the form of $a:b = c:d$. In this case, the numbers appear on the outside of the equation, and the terms appear on the inside.

Theorem 14: In a proportion, the product of the extremes equals the product of the means.

Example: This part of Theorem 14. Remember, this only addresses the numbers of your file, but it does include the possibility of thousand separators, if they are provided for indicated only.

Given: $\frac{2}{3} = \frac{4}{6}$

Prove: $a(d) = (b)(c)$

1. **Proof**

Mathematics	Reason
1. $\frac{2}{3} = \frac{4}{6}$	1. _____
2. $\frac{2(6)}{3(6)} = \frac{4(6)}{6(6)}$	2. _____
3. $\frac{2(6)}{3(6)} = \frac{4(6)}{6(6)}$ $\frac{2(6)}{3(6)} = \frac{4(6)}{6(6)}$	3. Multiplication
4. $2(6) = 4(6)$	4. Substitution Property and the canceling rule $\frac{2(6)}{3(6)}$, and the transformation to $\frac{2(6)}{3(6)}$
5. $12 = 24$	5. Commutative Property $2(6) = 12$

Note: In the proportion $\frac{2}{3} = \frac{4}{6}$, the numbers are 2 and 6, and the means are 3 and 4. The product of 2 and 6 is 12, and the product of 3 and 4 is 12. This is why we use the language of cross-multiplying from a true proportion.

If only three terms of a proportion are known, the fourth can be determined using Theorem 14.

Example

Index for a is the proportion: $\frac{a}{b} = \frac{c}{d}$

1. Multiply the extremes.
2. Multiply the means.
3. Set the products equal to one to other.
4. Index for the unknown

$$\begin{aligned} a(d) &= (b)(c) \\ 6(12) &= 24 \\ 72 &= 24 \\ c &= 6 \end{aligned}$$

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Ian Pickup

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