

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:

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

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

$$\frac{\text{numerator}}{\text{denominator}} = \frac{a}{b} = \frac{c}{d} \qquad \frac{\text{numerator}}{\text{numerator}} = \frac{a}{c} = \frac{b}{d}$$

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 extremes appear on the outside of the equation, and the means appear on the inside.

Theorem 16: In a proportion, the product of the extremes equals the product of the means.

Example: This part of Theorem 16. Remember, this only addresses the content of your file, but it does include the possibility of theorem numbers. If they are provided for reference only.

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

Prove: $ad = bc$

1. Proof

Mathematics	Reasons
1. $\frac{2}{3} = \frac{4}{6}$	1. _____
2. $\frac{2 \cdot 6}{3 \cdot 6} = \frac{4 \cdot 6}{6 \cdot 6}$	2. _____
3. $\frac{2 \cdot 6}{3 \cdot 6} = \frac{4 \cdot 6}{6 \cdot 6}$, $\frac{2 \cdot 6}{3 \cdot 6} = \frac{4 \cdot 6}{6 \cdot 6}$	3. Multiplication
4. $12 = 24$	4. Substitution Property, and the associative property, associative transformation for $\frac{2 \cdot 6}{3 \cdot 6}$
5. $1 \cdot 12 = 1 \cdot 24$	5. Commutative Property $12 = 24$

Note: In the proportion $\frac{2}{3} = \frac{4}{6}$, the extremes 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-multiplication from a true proportion.

If only three terms of a proportion are known, the fourth can be substituted using Theorem 16.

Example

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

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

$$\begin{aligned} ad &= bc \\ 10 \cdot 3 &= 24 \\ 30 &= 24 \\ a &= 8 \end{aligned}$$

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