

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 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 numbers of your file, but it does include the possibility of thousand separators. (They are provided for reference only.)

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

Prove: $a \cdot d = b \cdot c$

1. **Proof**

Mathematics	Reason
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 substitution property of the real numbers for $\frac{2 \cdot 6}{3 \cdot 6}$
5. $2 \cdot 6 = 4 \cdot 4$	5. Commutative Property $12 = 12$

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 substituted using Theorem 16.

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

$$\begin{aligned} a \cdot d &= b \cdot c \\ 10 \cdot 12 &= 20 \\ 120 &= 20 \\ 6 &= 1 \end{aligned}$$

Geometry Pace 1116 Test Answers

Patrick Vollmar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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