

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, you may subtract the number of problems, but the book includes the problems in theorem numbers. (They are provided for reference only.)

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

Prove: $ad = bc$ or $2 \times 6 = 3 \times 4$

1. Proof

Mathematics	Reasons
1. $\frac{2}{3} = \frac{4}{6}$	1. _____
2. $\frac{2 \times 6}{3 \times 6} = \frac{4 \times 6}{6 \times 6}$	2. _____
3. $\frac{2 \times 6}{3} = \frac{4 \times 6}{6}$ or $\frac{2 \times 6}{3} = 4$	3. Multiplication
4. $2 \times 6 = 4 \times 3$	4. Substitution Property and the associative property, associative transformation for $\frac{a}{b}$
5. $12 = 12$ or $2 \times 6 = 4 \times 3$	5. Commutative Property $ab = ba$

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 in these proportions.

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

Example

Index for a in this proportion: $\frac{a}{3} = \frac{4}{6}$

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

$$\begin{aligned} ad &= bc \\ 6a &= 12 \\ 6a &= 12 \\ a &= 2 \end{aligned}$$

Geometry Pace 1116 Test Answers

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