

# Download Constant Of Proportionality Definition

Constant derives from Latin verb meaning "to stand with," so something constant is continually standing with you and not wavering. You may be thankful for the constant companionship of your dog but not necessarily for your teacher's constant homework assignments. In math and science, a constant is a number that is fixed and known, unlike a variable which changes with the context. The concept of inverse proportionality can be contrasted with direct proportionality. Consider two variables said to be "inversely proportional" to each other. If all other variables are held constant, the magnitude or absolute value of one inversely proportional variable decreases if the other variable increases, while their product (the constant of proportionality  $k$ ) is always the same. Definition. According to Newton's law of universal gravitation, the attractive force ( $F$ ) between two point-like bodies is directly proportional to the product of their masses ( $m_1$  and  $m_2$ ), and inversely proportional to the square of the distance,  $r$ , (inverse-square law) between them:  $F = G \frac{m_1 m_2}{r^2}$ . The constant of proportionality,  $G$ , is the gravitational constant. Colloquially, the gravitational ... I was a very constant and attentive visitor to him throughout the whole period of his illness and convalescence; not only from the interest I took in his recovery, and my desire to cheer him up and make the utmost possible amends for my former 'brutality,' but from my growing attachment to himself, and the increasing pleasure I found in his society - partly from his increased cordiality to me ..., Constant Of Proportionality Definition.

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