



DIRECT AND INVERSE VARIATION

DIRECT VARIATION

Direct Variation: $x = y/k$	Direct Variation: $y = kx$	Constant of Proportionality $k = y/x$ ratio
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If three men earn \$180 in one day, how much will 15 men earn at the same rate of pay?



First write an equation	$180 = k(3)$
Find the constant of variation	$180/3 = k$ $k = 60$
Use the constant of variation along with the given information	$y = 60(15)$ $y = 900$

How much would zero men earn? Zero Dollars
If it makes sense = Direct Variation

INVERSE VARIATION

Inverse Variation: $x = \frac{k}{y}$	Inverse Variation: $y = \frac{k}{x}$	Constant of Proportionality $k = xy$ product
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If 8 snow plows can plow the airport in 6 hours, how many hours will it take 3 snow plows to plow the same airport?



First write an equation	$(6)(8) = k$
Find the constant of variation	$k = 48$
Use the constant of variation along with the given information	$y(3) = 48$ $y = 48/3$ $y = 16$

How long would it take to clear the runways if zero plows were used?
The timer would just keep going... because no-ones plowing it... so an answer doesn't exist...
If it doesn't make sense = Inverse Variation

FYI: There are other types of Variation out there but in all of them one thing remains the same:

K is "konstant" = it won't change.

K = "CONSTANT OF VARIATION"
OR "CONSTANT OF PROPORTIONALITY"

Direct Variation

y varies directly as x.
As x increases, y also increases.
As x decreases, y also decreases.
Equation: $y = kx$

Inverse Variation

y varies inversely as x.
As x increases, y decreases.
As x decreases, y increases.
Equation: $xy = k$ or $y = \frac{k}{x}$

Joint Variation

y varies directly to two or more quantities.
Equation: $y = kxz$

Combined Variation

y varies directly to some quantities and varies inversely to some other quantities.
Equation: $xyz = k$ or $y = \frac{kz}{x}$

Direct And Inverse Variation

Kimani Williams, PhD

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.

Direct And Inverse Variation:

Algebra II Practice Book, Grades 7 - 12 Barbara R. Sandall, Ed.D., Melfried Olson, Travis Olson, 2006-01-01 Simplifies the concepts of inequalities linear equations polynomial products and factors rational expressions roots radicals and complex numbers quadratic equations and functions as well as variation Includes clear instructions examples practice problems definitions problem solving strategies an assessment section answer keys and references Geared toward struggling students Supports NCTM standards Algebra II Practice Book, Grades 7 - 8 Barbara R. Sandall, Melfried Olson, Travis Olson, 2008-09-02 Make algebra equations easy for students in grades 7 and up using Algebra II Practice This 128 page book is geared toward students who struggle in algebra II and covers the concepts of inequalities linear equations polynomial products and factors rational expressions roots radicals complex numbers quadratic equations and functions and variations The book supports NCTM standards and includes clear instructions examples practice problems definitions problem solving strategies an assessment section answer keys and references *Essentials of Scientific Method* Abraham Wolf, 1925 **The Complete Algebra** Joseph Ficklin, 1874 Junior High School Mathematical Essentials J. Andrew Drushel, John William Withers, 1926 **College Algebra** Henry Lewis Rietz, Arthur Robert Crathorne, 1919 *An elementary and intermediate algebra, with exercises and answers* John Lightfoot, 1904 School Algebra James William Nicholson, 1909 Mathematics, Junior High School Denver Public Schools, 1926 *Algebra 1* Ron Larson, McDougal Littell, 2001 *A Manual of Physics, for Use in Secondary Schools, by John Hoffer Cloud ...* John Hoffer Cloud, 1904 **Essentials of Algebra** David Eugene Smith, William David Reeve, 1924 *First Course in Algebra* Fred Engelhardt, Leonard Daum Haertter, 1926 2026 Digital SAT Prep Manual Kimani Williams, PhD, 2025-12-04 Tutoring Machines 2026 Digital SAT Prep Manual is designed to prepare students for the digital SAT This book brilliantly covers strategies techniques tested questions and easily understood explanations Tutoring Machines teaching philosophy is predicated on teaching students fundamental concepts that will not only help them to solve a variety of problems but also to improve their mental capabilities to tackle the more difficult problems by methodically thinking their way to the correct answers We believe in the old adage Give a student a fish and you feed the student for a day Teach the student how to fish and you feed the student for a lifetime The Digital SAT Prep Manual 2026 will help students prepare for the Digital SAT by including the following A detailed overview of the test Tried and proven test taking approaches and strategies specific to the Digital SAT Carefully crafted and curated questions and drills for the different question types Detailed and easily understood explanations of answers Target drills after every question type to test your comprehension of that topic Tutoring Machines designed this book to avoid meaningless busy work but rather to focus on meaningful work to improve your test score Our goal is to have students ignore the fluff and focus on the meaningful stuff this will translate to students optimizing their Digital SAT scores Tutoring Machines is confident that the Digital SAT Prep Manual 2026 provides the academic and test prep tools that you will need to excel on the digital SAT Problems in

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 A Brief Course in Advanced Algebra Herbert Earle Buchanan,Lloyd Clement Emmons,1925 *Standard Service*
Algebra Giles Murrel Ruch,1937 A Second Course in Elementary Algebra Jacob William Albert Young,Lambert Lincoln
Jackson,1910 Solid Dielectrics ... Michel George Malti,1927

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