

LINEAR EQUATIONS WORD PROBLEMS

Type

1

SLOPE-INTERCEPT

Notes:

Use when given a rate of change (m) and a starting point (b).

1. Evan is going to the county fair this weekend. The admission to the fair is \$5 and the cost per ride is 50¢. If his parents gave him \$20, write and solve a linear equation to find how many rides he can go on.

$$m = 0.50$$

$$b = 5.00$$

$$y = .50x + 5.00$$

$$20 = .50x + 5$$

$$\frac{15}{.5} = \frac{.50x}{.5}$$

$$x = 30 \text{ rides}$$

2. While visiting Crimson Lake, Sally decided to go kayaking. The rangers charge \$8.50 per hour in addition to a \$25.00 deposit to rent the kayak. If she rented the kayak from 11:30 a.m. to 2:30 p.m., write and solve a linear equation to find the total cost to rent the kayak.

$$m = 8.50$$

$$b = 25.00$$

$$y = 8.50x + 25.00$$

$$y = 8.50(3) + 25$$

$$y = \$50.50$$

3. Alex bought a new truck for \$42,935. According to the dealer, the truck will depreciate approximately \$4,200 per year. Write and solve a linear equation to find how many years until the car is worth \$5,135.

$$m = -4200$$

$$b = 42935$$

$$y = -4200x + 42935$$

$$5135 = -4200x + 42935$$

$$-37800 = -4200x$$

$$x = 9 \text{ years}$$

4. If you buy a car wash at the gas station for \$6.00, the cost per gallon is \$2.35. If you have \$40, write and solve a linear equation to find the number of gallons of gas you can afford.

$$m = 2.35$$

$$b = 6$$

$$y = 2.35x + 6.00$$

$$40 = 2.35x + 6$$

$$34 = 2.35x$$

$$x = 14.47 \text{ gal}$$

Type

2

STANDARD FORM

Notes:

Use when the problem relates 2 different objects.

5. Sam ordered two hamburgers and three hotdogs from the concession stand at the baseball game. His bill came to \$19.05. If hamburgers cost \$5.25 each, write and solve a linear equation to find the cost of each hot dog.

$$x = \text{hamburgers}$$

$$y = \text{hotdogs}$$

$$2x + 3y = 19.05$$

$$2(5.25) + 3y = 19.05$$

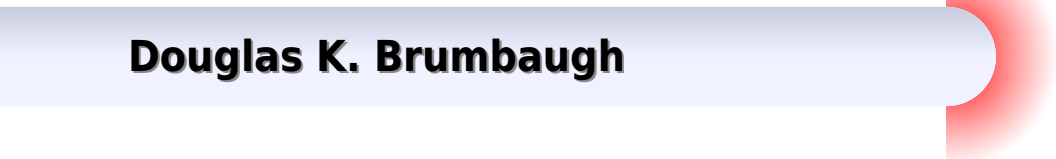
$$10.50 + 3y = 19.05$$

$$3y = 8.55$$

$$y = \$2.85$$

Linear Word Problems Algebra 1 Homework

Douglas K. Brumbaugh



Linear Word Problems Algebra 1 Homework:

Power Practice: Algebra, Gr. 5-8, eBook Pam Jennett, 2004-09-01 Topics include linear equations inequalities and absolute values systems of linear equations powers exponents and polynomials quadratic equations and factoring rational expressions and proportions and more Also includes practice pages assessment tests reproducible grid paper and an answer key Supports NCTM standards

Teaching Middle School Mathematics Douglas K. Brumbaugh, 2013-05-13 Middle school teaching and learning has a distinct pedagogy and curriculum that is grounded in the concept of developmentally appropriate education This text is designed to meet the very specific professional development needs of future teachers of mathematics in middle school environments Closely aligned with the NCTM Principles and Standards for School Mathematics the reader friendly interactive format encourages readers to begin developing their own teaching style and making informed decisions about how to approach their future teaching career A variety of examples establish a broad base of ideas intended to stimulate the formative development of concepts and models that can be employed in the classroom Readers are encouraged and motivated to become teaching professionals who are lifelong learners The text offers a wealth of technology related information and activities reflective thought provoking questions mathematical challenges student life based applications TAG tricks activities games sections and group discussion prompts to stimulate each future teacher's thinking Your Turn sections ask readers to work with middle school students directly in field experience settings This core text for middle school mathematics methods courses is also appropriate for elementary and secondary mathematics methods courses that address teaching in the middle school grades and as an excellent in service resource for aspiring or practicing teachers of middle school mathematics as they update their knowledge base Topics covered in Teaching Middle School Mathematics NCTM Principles for School Mathematics Representation Connections Communication Reasoning and Proof Problem Solving Number and Operations Measurement Data Analysis and Probability Algebra in the Middle School Classroom and Geometry in the Middle School Classroom

Moderator's Guide to Eighth-grade Mathematics Lessons, 1997 [Interactive Mathematics Program](#) Daniel M. Fendel, 1999

Linear Equations and Lines Leon J. Ablon, 1981 *Key Maths* David Baker, 2001 Planned developed and written by practising classroom teachers with a wide variety of experience in schools this maths course has been designed to be enjoyable and motivating for pupils and teachers The course is open and accessible to pupils of all abilities and backgrounds and is differentiated to provide material which is appropriate for all pupils It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice This teacher's file is designed for stage two of Year 9

Resources for Preparing Middle School Mathematics Teachers Cheryl Beaver, Laurie J. Burton, Maria Gueorguieva Gargova Fung, Klay Kruczek, 2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors Cover

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various mathematical techniques Proga helps students understand why a technique works so they ll remember how to use it Well known for its flexibility and complete coverage of arithmetic and algebra topics Proga s text is perfectly suited for a combination arithmetic elementary algebra course for either an arithmetic or an algebra course or for a two term course sequence *The Software Encyclopedia 2001* ,2001 Inclusion Coaching for Collaborative Schools Toby J. Karten,2013-05-14 Be the coach who leads your school team to inclusion success You know the benefits of inclusion and your colleagues know that you re the go to expert when they need assistance with school and classroom implementation Now you can take your advocacy to the next level with inclusion coaching Inclusion works best when all team players contribute and as coach you ll provide the leadership your school needs to follow through on its mission in a truly collaborative way Just as instructional coaches help teachers improve their practice and hone their skills you ll guide your school team in applying the very best inclusion strategies for achieving quantifiable results Toby Karten s how to guide will help you Establish your own coaching baselines Introduce research based strategies for lesson planning instruction and recording data Engage staff in reflective and collaborative inclusion practices Manage challenges including scheduling and co teaching responsibilities With timelines planning sheets surveys frameworks curriculum examples and other practical tools this hands on guide is the essential resource for the newly minted inclusion coach This book is the necessary piece to including all students successfully in the learning and living classroom The information planning and questioning will help all schools develop the tools necessary to reach all students Karen Kozy Landress Speech Language Pathologist MILA Elementary School Merritt Island FL **Algebra I** Pennsylvania. Bureau of Curriculum and Instruction. Division of Communication, Mathematics and Instruction,1987 *Intermediate Algebra* Charles P. McKeague,1996 **Successful and Less Successful Students' Strategies for Writing Equations for Algebra Word Problems at Two Levels of Complexity** Sufian Abdullatif Kamal,1986 Intermediate Algebra with Applications Terry H. Wesner,Harry L. Nustad,1996 **Algebra: Algebra and trigonometry** ,1979 *Intermediate Algebra* Ignacio Bello,2006 Intermediate algebra with real numbers linerar equations and inequalities **Glencoe Algebra 1** ,2001 **New Media for Improvement of Algebra Instruction** John Gideon Church,New York (State). Bureau of Classroom Communications,1964 Directory of Distance Learning Opportunities Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services

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