

6-4 Study Guide and Intervention

Elimination Using Multiplication

Elimination Using Multiplication Some systems of equations cannot be solved simply by adding or subtracting the equations. In such cases, one or both equations must first be multiplied by a number before the system can be solved by elimination.

Example 1: Use elimination to solve the system of equations.

$$\begin{aligned}x + 10y &= 3 \\ 4x + 5y &= 5\end{aligned}$$

If you multiply the second equation by -2 , you can eliminate the y terms.

$$\begin{array}{r}x + 10y = 3 \\ (+) -8x - 10y = -10 \\ \hline -7x = -7 \\ \frac{-7x}{-7} = \frac{-7}{-7} \\ x = 1\end{array}$$

Substitute 1 for x in either equation.

$$\begin{aligned}1 + 10y &= 3 \\ 1 + 10y - 1 &= 3 - 1 \\ 10y &= 2 \\ \frac{10y}{10} &= \frac{2}{10} \\ y &= \frac{1}{5}\end{aligned}$$

The solution is $\left(1, \frac{1}{5}\right)$.

Exercises

Use elimination to solve each system of equations.

$$\begin{aligned}1. \quad 2x + 3y &= 6 \\ x + 2y &= 5\end{aligned}$$

$$\begin{aligned}4. \quad 4x + 5y &= 6 \\ 6x - 7y &= -20\end{aligned}$$

$$\begin{aligned}7. \quad 4x - y &= 9 \\ 5x + 2y &= 8\end{aligned}$$

$$\begin{aligned}10. \quad 6x - 4y &= -8 \\ 4x + 2y &= -3\end{aligned}$$

$$\begin{aligned}2. \quad 2m + 3n &= 4 \\ -m + 2n &= 5\end{aligned}$$

$$\begin{aligned}5. \quad 4x - 3y &= 22 \\ 2x - y &= 10\end{aligned}$$

$$\begin{aligned}8. \quad 4a - 3b &= -8 \\ 2a + 2b &= 3\end{aligned}$$

$$\begin{aligned}11. \quad 4x + 2y &= -5 \\ -2x - 4y &= 1\end{aligned}$$

Example 2: Use elimination to solve the system of equations.

$$\begin{aligned}3x - 2y &= -7 \\ 2x - 5y &= 10\end{aligned}$$

If you multiply the first equation by 2 and the second equation by -3 , you can eliminate the x terms.

$$\begin{array}{r}6x - 4y = -14 \\ (+) -6x + 15y = -30 \\ \hline 11y = -44 \\ \frac{11y}{11} = \frac{-44}{11} \\ y = -4\end{array}$$

Substitute -4 for y in either equation.

$$\begin{aligned}3x - 2(-4) &= -7 \\ 3x + 8 &= -7 \\ 3x + 8 - 8 &= -7 - 8 \\ 3x &= -15 \\ \frac{3x}{3} &= \frac{-15}{3} \\ x &= -5\end{aligned}$$

The solution is $(-5, -4)$.

$$\begin{aligned}3. \quad 3a - b &= 2 \\ a + 2b &= 3\end{aligned}$$

$$\begin{aligned}6. \quad 3x - 4y &= -4 \\ x + 3y &= -10\end{aligned}$$

$$\begin{aligned}9. \quad 2x + 2y &= 5 \\ 4x - 4y &= 10\end{aligned}$$

$$\begin{aligned}12. \quad 2x + y &= 3.5 \\ -x + 2y &= 2.5\end{aligned}$$

13. **GARDENING** The length of Sally's garden is 4 meters greater than 3 times the width. The perimeter of her garden is 72 meters. What are the dimensions of Sally's garden?

Study Guide And Intervention Rectangles Answers

Rachel Lambert



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Geometry, Study Guide and Intervention Workbook McGraw Hill,2006-08-07 Study Guide and Intervention Practice Workbook provides vocabulary key concepts additional worked out examples and exercises to help students who need additional instruction or who have been absent **Algebra 2 Chapter 6 Resource Masters** McGraw-Hill Staff,2002-05

Pre-Algebra, Lesson Planning Guide ,2002-05 Targeted Reading Intervention , **Intervention Workbook and Master Copy** HSP,2002-06 **International Perspectives on the Teaching and Learning of Geometry in Secondary Schools** Patricio Herbst,Ui Hock Cheah,Philippe R. Richard,Keith Jones,2018-04-27 This book presents current perspectives on theoretical and empirical issues related to the teaching and learning of geometry at secondary schools It contains chapters contributing to three main areas A first set of chapters examines mathematical epistemological and curricular perspectives A second set of chapters presents studies on geometry instruction and teacher knowledge and a third set of chapters offers studies on geometry thinking and learning Specific research topics addressed also include teaching practice learning trajectories learning difficulties technological resources instructional design assessments textbook analyses and teacher education in geometry Geometry remains an essential and critical topic in school mathematics As they learn geometry students develop essential mathematical thinking and visualization skills and learn a language that helps them relate to and interact with the physical world Geometry has traditionally been included as a subject of study in secondary mathematics curricula but it has also featured as a resource in out of school problem solving and has been connected to various human activities such as sports games and artwork Furthermore geometry often plays a role in teacher preparation undergraduate mathematics and at the workplace New technologies including dynamic geometry software computer assisted design software and geometric positioning systems have provided more resources for teachers to design environments and tasks in which students can learn and use geometry In this context research on the teaching and learning of geometry will continue to be a key element on the research agendas of mathematics educators as researchers continue to look for ways to enhance student learning and to understand student thinking and teachers decision making **Rethinking Disability and Mathematics** Rachel Lambert,2024-04-15 Every child has a right to make sense of math and to use math to make sense of their worlds Despite their gifts students with disabilities are often viewed from a deficit standpoint in mathematics classrooms These students are often conceptualized as needing to be fixed or remediated Rethinking Disability and Mathematics argues that mathematics should be a transformative space for these students a place where they can discover their power and potential and be appreciated for their many strengths Author Rachel Lambert introduces Universal Design for Learning for Math UDL Math a way to design math classrooms that empowers disabled and neurodiverse students to engage in mathematics in ways that lead to meaningful and joyful math learning The book showcases how UDL Math can open up mathematics classrooms so that they provide access to meaningful understanding and an identity as a math learner

to a wider range of students Weaved throughout the book are the voices of neurodiverse learners telling their own stories of math learning Through stories of real teachers recognizing the barriers in their own math classrooms and redesigning to increase access the book Reframes students with disabilities from a deficit to an asset perspective paving the way for trusting their mathematical thinking Offers equitable math instruction for all learners including those with disabilities neurodiverse students and or multilingual learners Applies UDL to the math classroom providing practical tips and techniques to support students cognitive affective and strategic development Immerses readers in math classrooms where all students are engaged in meaningful mathematics from special education day classes to inclusive general education classrooms from grades K 8 Integrates research on mathematical learning including critical math content such as developing number sense and place value fluency with math facts and operations and understanding fractions and algebraic thinking Explores critical issues such as writing IEP goals in math This book is designed for all math educators both those trained as general education teachers and those trained as special education teachers The UDL Math approach is adapted to work for all learners because everyone varies in how they perceive the world and in how they approach mathematical problem solving When we rethink mathematics to include multiple ways of being a math learner we make math accessible and engaging for a wider group of learners

Christian Home Educators' Curriculum Manual Cathy Duffy,1997-11 **Drawing Out Learning With Thinking Maps** Shelly L. Counsell,David Hyerle,2023 What and how young children are thinking are typically expressed and shared at home and school through verbal and written modes of communication As a visual language framework conceived and developed by David Hyerle Thinking Maps offers an additional way for learners to represent their ideas by visually mapping their fundamental patterns of thinking The authors offer a wide range of materials strategies and evidence based practices for implementing Thinking Maps and the metacognitive framing strategy that each map promotes in ways that are developmentally appropriate culturally responsive and more inclusive with the full range of pre K second grade children Since 1990 Thinking Maps have been implemented by teachers in over 15 000 schools across the United States and around the world including countrywide implementation in Malaysia This guide provides a whole child approach with practical ideas and best applications for working with emergent readers and writers across developmental domains curricula and executive function Book Features Promotes systematic support of every students cognitive development in whole schools pre K 2 Demonstrates how to use visual auditory tactile and kinesthetic activities and materials to increase student engagement Recommends Universally Designed Learning strategies to ensure full access and inclusion with diverse learners and children with disabilities Includes graphically designed examples of Thinking Maps across content areas Provides examples of student work lesson planning ideas and curriculum design based on cognitive education Links language and thinking in everyday classroom learning for individual and cooperative learning **Macmillan/McGraw-Hill Math: Teacher ed., v. 1** ,2004

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understand and develop expertise in both teaching and learning this book focuses on the science of educational psychology and the art of what it takes to become an expert teacher **Scientific American** ,1853 Monthly magazine devoted to topics of general scientific interest **Bowker's Complete Video Directory 2001** ,2001 **Bulletin of the Atomic Scientists** ,1959-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world PC ,1987 **TX Te Vol 2 Gr 5 Span Math09** HSP,2006-09 *Books In Print 2004-2005* Ed Bowker Staff,Staff Bowker, Ed,2004

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