

9-2**Study Guide and Intervention****Factoring Using the Distributive Property**

Factor by Using the Distributive Property The Distributive Property has been used to multiply a polynomial by a monomial. It can also be used to express a polynomial in factored form. Compare the two columns in the table below.

Multiplying	Factoring
$3(a + b) = 3a + 3b$	$3a + 3b = 3(a + b)$
$x(y - z) = xy - xz$	$xy - xz = x(y - z)$
$6y(2x + 1) = 6y(2x) + 6y(1)$ $= 12xy + 6y$	$12xy + 6y = 6y(2x) + 6y(1)$ $= 6y(2x + 1)$

Example 1 Use the Distributive Property to factor $12mn + 80m^2$.

Find the GCF of $12mn$ and $80m^2$.

$$12mn = 2 \cdot 2 \cdot 3 \cdot m \cdot n$$

$$80m^2 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot m \cdot m$$

$$\text{GCF} = 2 \cdot 2 \cdot m \text{ or } 4m$$

Write each term as the product of the GCF and its remaining factors.

$$\begin{aligned} 12mn + 80m^2 &= 4m(3 \cdot n) + 4m(2 \cdot 2 \cdot 5 \cdot m) \\ &= 4m(3n) + 4m(20m) \\ &= 4m(3n + 20m) \end{aligned}$$

$$\text{Thus } 12mn + 80m^2 = 4m(3n + 20m).$$

Example 2 Factor

$6ax + 3ay + 2bx + by$ by grouping.

$$\begin{aligned} 6ax + 3ay + 2bx + by &= (6ax + 3ay) + (2bx + by) \\ &= 3a(2x + y) + b(2x + y) \\ &= (3a + b)(2x + y) \end{aligned}$$

Check using the FOIL method.

$$\begin{aligned} (3a + b)(2x + y) &= 3a(2x) + (3a)(y) + (b)(2x) + (b)(y) \\ &= 6ax + 3ay + 2bx + by \checkmark \end{aligned}$$

Exercises

Factor each polynomial.

1. $24x + 48y$

2. $30mn^2 + m^2n - 6n$

3. $q^4 - 18q^3 + 22q$

4. $9x^2 - 3x$

5. $4m + 6n - 8mn$

6. $45s^3 - 15s^2$

7. $14c^3 - 42c^5 - 49c^4$

8. $55p^2 - 11p^4 + 44p^5$

9. $14y^3 - 28y^2 + y$

10. $4x + 12x^2 + 16x^3$

11. $4a^2b + 28ab^2 + 7ab$

12. $6y + 12x - 8z$

13. $x^2 + 2x + x + 2$

14. $6y^2 - 4y + 3y - 2$

15. $4m^2 + 4mn + 3mn + 3n^2$

16. $12ax + 3bx + 4ay + yz$

17. $12a^2 + 3a - 8a - 2$

18. $xa + ya + x + y$

Factoring Using The Distributive Property Study Guide

Reza Nazari



Factoring Using The Distributive Property Study Guide:

GMAS Grade 6 Math Full Study Guide Reza Nazari, 2023-08-08 Mastering GMAS Grade 6 Math Your Ultimate Study Guide The GMAS Grade 6 Math Full Study Guide is the definitive resource for students embarking on their journey to conquer the Georgia Milestones Assessment System GMAS Math test Built on the latest curriculum and pedagogical insights this guide offers a comprehensive and systematic approach to mastering all topics in the sixth grade GMAS math syllabus From basic arithmetic to the complexities of geometry this guide has you covered This study guide goes beyond mere content offering test taking strategies specifically designed for the GMAS format instilling confidence in students as they prepare for the exam It includes practice problems that closely resemble actual GMAS questions and detailed solutions to deepen understanding It is not just a study aid but a guide to academic triumph An invaluable resource for parents and educators this guide's structured design and thorough approach make it perfect for classroom teaching individual study or group sessions

Guide Highlights

- In Depth Topic Coverage** Thoroughly explores each subject from simple arithmetic to advanced geometry and algebra leaving no topic behind
- GMAS Specific Strategies** Learn tactics tailored to the GMAS test format enhancing your chances of achieving a high score
- Realistic Practice Problems** Engage with a wide range of problems modeled after actual GMAS questions preparing you for various question types
- Detailed Solutions** Each problem comes with a comprehensive solution enabling deeper comprehension of the methods involved
- Recap and Review** Solidify your knowledge with chapter summaries key takeaways and review quizzes
- User Friendly Format** Easily navigate through the guide with a well organized table of contents glossary and index
- Expert Authorship** Developed by educators who understand the nuances of the GMAS standards and the challenges specific to Grade 6 Math

Empower yourself or your students with the *GMAS Grade 6 Math Full Study Guide* Embark on a journey to master Grade 6 Math for GMAS and pave the way for academic excellence

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Guide Highlights

- Comprehensive Curriculum Overview** Offers a clear picture of the sixth grade math curriculum covering everything from basic arithmetic to the fundamentals of algebra and geometry
- Progressive Practice Questions** Features a variety of practice questions mirroring the DCAS exam format arranged in ascending difficulty to monitor and support student progress
- In Depth Solutions** Each practice problem is accompanied by a detailed solution aiding in resolving doubts and strengthening student understanding
- Educational Strategies** Provides valuable tips for educators and parents on teaching students to tackle difficult questions manage time effectively and avoid common errors
- Interactive Learning Aids** Includes visual tools like infographics and diagrams aiding in simplifying complex

concepts Regular Assessment Tools Contains review quizzes to gauge student understanding identifying areas needing additional focus The DCAS Grade 6 Math Full Study Guide transcends a mere textbook it is a complete educational toolkit crafted for parents and educators With this guide you can equip your students with the necessary knowledge and skills to confidently navigate the DCAS math exam Prepare your students for triumph boost their confidence and guide them towards academic excellence with this indispensable study guide *FSA Grade 6 Math Full Study Guide* Reza Nazari,2023-08-10 Ultimate FSA Grade 6 Math Mastery Guide Excel in Your Exam The FSA Grade 6 Math Full Study Guide is an all encompassing resource designed to help sixth graders conquer the Florida Standards Assessments FSA in mathematics Tailored to reflect the latest curriculum and updates this guide is your ticket to closing knowledge gaps refining skills and instilling the confidence needed for exam excellence Dive into detailed modules each enriched with clear examples comprehensive explanations and custom practice problems Ideal for students seeking extra help tutors looking for structured content or teachers needing supplementary materials this guide is your go to for acing FSA Grade 6 Math Guide Highlights Up to Date Material Aligned with the latest Florida educational standards for maximum relevance Extensive Topic Coverage Tackles everything from basic arithmetic to complex geometry and algebra ensuring a full grasp of sixth grade math Clear Detailed Examples Break down complicated problems with step by step explanations and visuals making learning more accessible Abundant Practice Problems Each section includes exercises to solidify understanding providing ample preparation for the exam Answers Explanations Offers solutions with explanations to help students learn from mistakes and understand problem solving processes Exam Strategy Tips Learn effective tactics for managing time decoding challenging questions and maintaining composure during the exam Interactive Elements Engage with dynamic features in certain sections for a more immersive study experience Ideal For Sixth graders gearing up for the FSA math exam Teachers in search of quality supplementary classroom resources Tutors requiring a comprehensive structured guide for student assistance Gear up for success in the FSA Grade 6 Math exam with this thorough guide perfectly in sync with Florida s educational standards This study guide puts comprehensive understanding and exam readiness well within your reach

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arithmetic fractions and decimals effortlessly comprehensible Extensive Practice Questions Over 500 practice questions mirroring the K PREP exam style provide abundant practice Coupled with detailed solutions these questions encourage self evaluation and deepen understanding Conceptual Understanding The guide focuses on grasping concepts at their core using diagrams illustrations and real life scenarios to make abstract ideas concrete and memorable Effective Test Strategies Learn proven tactics to tackle math problems with precision and confidence This includes managing time and avoiding common mistakes Chapter Recaps Reviews Each chapter concludes with a concise summary and review questions reinforcing key concepts and ensuring thorough comprehension in preparation for the exam Digital Learning Tools Access online mock exams video tutorials and interactive quizzes for a dynamic well rounded study experience Drawing on Expertise The K PREP Grade 6 Math Full Study Guide is the result of collective insights from experienced educators curriculum experts and mathematicians Their expertise converges in this guide providing students with current effective and dependable preparation materials Intended Audience Ideal for Grade 6 students parents tutors and educators in Kentucky this guide is also a fantastic resource for anyone seeking a solid foundation in middle school math concepts It s the go to tool for those aiming to excel in K PREP or to master the essentials of sixth grade math Embark on your mathematical journey with the K PREP Grade 6 Math Full Study Guide not just as a preparation tool but as your guide to achieving mathematical excellence [IAR Grade 6 Math Full Study Guide](#) Reza Nazari,2023-08-10 Master IAR Grade 6 Math Your Ultimate Guide to Success The IAR Grade 6 Math Full Study Guide is the ultimate resource for conquering the Illinois Assessment of Readiness IAR in Grade 6 Mathematics Tailored to align with the latest Illinois academic standards and test frameworks this guide equips sixth graders with a deep understanding of what the exam entails empowering them to approach it with assurance and skill Embark on a comprehensive journey through each math concept enriched with vivid examples in depth explanations and targeted practice problems This guide is an indispensable tool for students educators and tutors ensuring that Grade 6 students are thoroughly prepared for the IAR math assessment Guide Features Up to Date Material Aligned with the most current Illinois academic standards providing students with relevant and current content Comprehensive Topic Exploration Delve into all key math areas including fractions decimals algebraic concepts and geometry all tailored for sixth grade understanding Step by Step Examples Detailed walkthroughs and visual aids help students easily grasp and visualize complex math topics Abundant Practice Problems Integrated into each chapter these problems allow students to apply and reinforce their learned knowledge Solutions and Methodologies An answer key with explanations helps students review their work and understand the reasoning behind each solution Strategic Test Taking Advice Offers expert tips on managing time interpreting challenging questions and staying calm during the test Interactive Features Select sections include engaging tools to create an immersive and effective learning experience Ideal for Students gearing up for the Grade 6 IAR math assessment Educators seeking a comprehensive resource to enhance classroom teaching Tutors looking for a systematic and all

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a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data

Common Core State Standards: Math 6th Grade (Speedy Study Guides) Speedy Publishing, 2015-04-27 6th grade math is oftentimes seen as an impossible task with its ratios fractions equations and statistical thinking The challenge therefore for the teacher is to completely reverse such mindset by making the task actually entertaining This guide holds valuable information on activities and concepts that make learning 6th grade math a walk in the park Be sure to secure your copy today **Math Common Core 6th Grade (Speedy Study Guides)** Speedy Publishing, 2014-07-03 More mathematical concepts are addressed at younger ages as a result of Common Core State Standards In the 6th grade students do much more in depth work with geometry ratio and percentage as well as statistics and probability This is not the first time these concepts are addressed though The Common Core approach requires going deeper into content learned in earlier years Because of this need to look at each grade instead of just one year a reference guide for parents and guardians would provide a much better snapshot showing the big picture mathematical goal for each student

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Table of Contents Factoring Using The Distributive Property Stidy Guide

1. Understanding the eBook Factoring Using The Distributive Property Stidy Guide
 - The Rise of Digital Reading Factoring Using The Distributive Property Stidy Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Factoring Using The Distributive Property Stidy Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Factoring Using The Distributive Property Stidy Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Factoring Using The Distributive Property Stidy Guide
 - Personalized Recommendations
 - Factoring Using The Distributive Property Stidy Guide User Reviews and Ratings
 - Factoring Using The Distributive Property Stidy Guide and Bestseller Lists
5. Accessing Factoring Using The Distributive Property Stidy Guide Free and Paid eBooks
 - Factoring Using The Distributive Property Stidy Guide Public Domain eBooks
 - Factoring Using The Distributive Property Stidy Guide eBook Subscription Services
 - Factoring Using The Distributive Property Stidy Guide Budget-Friendly Options

6. Navigating Factoring Using The Distributive Property Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Factoring Using The Distributive Property Study Guide Compatibility with Devices
 - Factoring Using The Distributive Property Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Factoring Using The Distributive Property Study Guide
 - Highlighting and Note-Taking Factoring Using The Distributive Property Study Guide
 - Interactive Elements Factoring Using The Distributive Property Study Guide
8. Staying Engaged with Factoring Using The Distributive Property Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Factoring Using The Distributive Property Study Guide
9. Balancing eBooks and Physical Books Factoring Using The Distributive Property Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Factoring Using The Distributive Property Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Factoring Using The Distributive Property Study Guide
 - Setting Reading Goals Factoring Using The Distributive Property Study Guide
 - Carving Out Dedicated Reading Time
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 - Fact-Checking eBook Content of Factoring Using The Distributive Property Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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