

5-2 Study Guide and Intervention

Solving Inequalities by Multiplication and Division

Solve Inequalities by Multiplication If each side of an inequality is multiplied by the same positive number, the resulting inequality is also true. However, if each side of an inequality is multiplied by the same negative number, the direction of the inequality must be reversed for the resulting inequality to be true.

Multiplication Property of Inequalities

For all numbers a , b , and c , with $c \neq 0$,

1. If c is positive and $a > b$, then $ac > bc$;
if c is positive and $a < b$, then $ac < bc$;
2. If c is negative and $a > b$, then $ac < bc$;
if c is negative and $a < b$, then $ac > bc$.

The property is also true when $>$ and $<$ are replaced with \geq and \leq .

Example 1: Solve $-\frac{y}{8} \geq 12$

$$-\frac{y}{8} \geq 12 \quad \text{Original inequality}$$

$$(-8)\left(-\frac{y}{8}\right) \leq (-8)12 \quad \text{Multiply each side by } -8; \text{ change } \geq \text{ to } \leq. \\ y \leq -96 \quad \text{Simplify.}$$

The solution is $\{y \mid y \leq -96\}$.

Example 2: Solve $\frac{3}{4}k < 15$

$$\frac{3}{4}k < 15 \quad \text{Original inequality}$$

$$\left(\frac{4}{3}\right)\frac{3}{4}k < \left(\frac{4}{3}\right)15 \quad \text{Multiply each side by } \frac{4}{3}. \\ k < 20 \quad \text{Simplify.}$$

The solution is $\{k \mid k < 20\}$.

Exercises

Solve each inequality. Check your solution.

1. $\frac{x}{6} \leq 2$

2. $-\frac{n}{50} > 22$

3. $\frac{3}{5}h \geq -3$

4. $-\frac{p}{8} < -6$

5. $\frac{2}{3}m \geq 10$

6. $-\frac{2}{3}b < \frac{1}{3}$

7. $\frac{3m}{5} < -\frac{3}{20}$

8. $-2.5t \leq -\frac{25}{4}$

9. $\frac{d}{3} \geq -2$

10. $-\frac{3}{4} > -\frac{9x}{8}$

11. $\frac{m}{10} \geq 5.4$

12. $\frac{2a}{7} \geq -6$

Define a variable, write an inequality, and solve each problem. Check your solution.

13. Half of a number is at least 14.

14. The opposite of one-third a number is greater than 9.

15. One fifth of a number is at most 30.

Study Guide Intervention Solving Inequalities Answers

Arturo Cuomo

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McGraw-Hill Staff,2002-09 **Algebra 2 Chapter 3 Resource Masters** McGraw-Hill Staff,2002-05 **Algebra 1, Study Guide and Intervention Workbook** McGraw-Hill/Glencoe,2002-06 *Algebra 2 Chapter 6 Resource Masters* McGraw-Hill Staff,2002-05 **Eureka Math Algebra II Study Guide** Great Minds,2016-06-29 The team of teachers and mathematicians who created Eureka Math believe that it's not enough for students to know the process for solving a problem they need to know why that process works. That's why students who learn math with Eureka can solve real world problems even those they have never encountered before. The Study Guides are a companion to the Eureka Math program whether you use it online or in print. The guides collect the key components of the curriculum for each grade in a single volume. They also unpack the standards in detail so that anyone even non Eureka users can benefit. The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. We're here to make sure you succeed with an ever growing library of resources. Take advantage of the full set of Study Guides available for each grade PK-12 or materials at eureka-math.org such as free implementation and pacing guides, material lists, parent resources and more. **Glencoe Algebra I** ,2003 *Pre-Algebra, Lesson Planning Guide* ,2002-05 School-based nutrition and physical activity interventions among children and adolescents Shooka Mohammadi ,Hui Chin Koo,Ai Kah Ng,2025-04-07 The increasing prevalence of obesity, sedentary lifestyle and unhealthy eating habits among children and adolescents is very concerning. The main risk factors that lead to childhood weight problems and obesity are an increase in meals eaten outside of the home, a rise in access to high fat foods, high consumption of energy packed foods, a sedentary lifestyle or skipping breakfast. This is concerning as obesity, inadequate physical activity (PA) and unhealthy diets are associated with chronic diseases. Therefore, promoting healthy eating and sufficient PA among children and adolescents has become a research priority and an important public health concern. The World Health Organization (WHO) considers schools a critical setting for improving public health, eating and decreasing the risk of unhealthy weight gain in childhood. In particular, environmental interventions are recommended as they are more likely to lead to behavioural change. Thus, promoting adequate PA and a healthy diet among school aged children is essential.

Resources in Education ,1998 Research on Teaching Strategies and Skills in Different Educational Stages Pedro Gil-Madrona, Linda Saraiva, Luisa Losada-Puente,2025-03-19 The teaching practice becomes a reciprocal activity in the classroom when teachers apply their creativity and their knowledge resulting from research and scientific evidence in the didactic teaching process with the purpose of strengthening in the students the key competencies of their training, turning students at the core of the didactic process. Teaching strategies must be articulated from previous research and planning and designed sequentially to promote real and interesting learning scenarios and thereby achieve significant learning. From this

perspective of teaching learning strategies the reciprocal interaction between the student and the teacher becomes the focus of attention with a playful motivating interesting and rewarding approach for the learner The role of the teacher is conceived as fundamental in the teaching process to achieve the link between teaching learning and evaluation strategies For this reason multidisciplinary studies are welcome from all stages of the educational system with quantitative qualitative and mixed approaches and reviews promoting good teaching practices of reflection and innovation from these studies

Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1966

Canadian Journal of Psychiatry. Revue Canadienne de Psychiatrie ,2006 Macroeconomic Decision Making in the World Economy Michael G. Rukstad,1992 Employing both text and cases the authors discuss economic issues and the impact they have on management decisions *Scott Foresman-Addison Wesley Mathematics* ,2008 *Subject Guide to Books in Print* ,1996 Bibliographic Guide to Education ,2001 lists publications cataloged by Teachers College Columbia University supplemented by The Research Libraries of The New York Publica Library **American Book Publishing Record** ,1988 Guide to Funding for International and Foreign Programs ,2000 Video Source Book Gale Group,1999-10-28 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction

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Table of Contents Study Guide Intervention Solving Inequalities Answers

1. Understanding the eBook Study Guide Intervention Solving Inequalities Answers
 - The Rise of Digital Reading Study Guide Intervention Solving Inequalities Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Intervention Solving Inequalities Answers
 - 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 Study Guide Intervention Solving Inequalities Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Intervention Solving Inequalities Answers

- Personalized Recommendations
- Study Guide Intervention Solving Inequalities Answers User Reviews and Ratings
- Study Guide Intervention Solving Inequalities Answers and Bestseller Lists

5. Accessing Study Guide Intervention Solving Inequalities Answers Free and Paid eBooks

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- Study Guide Intervention Solving Inequalities Answers eBook Subscription Services
- Study Guide Intervention Solving Inequalities Answers Budget-Friendly Options

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- ePUB, PDF, MOBI, and More
- Study Guide Intervention Solving Inequalities Answers Compatibility with Devices
- Study Guide Intervention Solving Inequalities Answers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Study Guide Intervention Solving Inequalities Answers
- Highlighting and Note-Taking Study Guide Intervention Solving Inequalities Answers
- Interactive Elements Study Guide Intervention Solving Inequalities Answers

8. Staying Engaged with Study Guide Intervention Solving Inequalities Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Study Guide Intervention Solving Inequalities Answers

9. Balancing eBooks and Physical Books Study Guide Intervention Solving Inequalities Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Study Guide Intervention Solving Inequalities Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Study Guide Intervention Solving Inequalities Answers

- Setting Reading Goals Study Guide Intervention Solving Inequalities Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Study Guide Intervention Solving Inequalities Answers

- Fact-Checking eBook Content of Study Guide Intervention Solving Inequalities Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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