

3rd Grade Math CRCT Study Guide 2013

Numbers and Operations in Base Ten



Standard form: (Just write the digits) = 334
 Written form: (Spell out the numbers) = One hundred thirty-four
 Expanded form: (Stretch it out by place value) = 300 + 30 + 4

★ **Rounding:** Third graders must know how to round numbers to the nearest ten and hundred!

Example: Round 34 to the nearest ten.



Example: Round 378 to the nearest hundred.



★ **Addition and Subtraction Strategies**

Addition Strategies

Adding by Place Value

$$145 + 167$$

$$100 + 100 = 200$$

$$40 + 60 = 100$$

$$5 + 7 = 12$$

$$200 + 100 + 12 = 312$$

Adding in Chunks/Parts

$$145 + 167$$

$$145 + 100 = 245$$

$$245 + 60 = 305$$

$$305 + 7 = 312$$

Making Nice Numbers

$$145 + 167$$

$$145 - 3 = 142$$

$$167 + 3 = 170$$

$$170 + 100 = 270$$

$$270 + 40 = 310$$

$$310 + 2 = 312$$

Subtraction Strategies

Number Line Add Up

$$274 - 156$$



Number Line Count Back

$$274 - 156$$



Subtract in Chunks

$$274 - 156$$

$$274 - 100 = 174$$

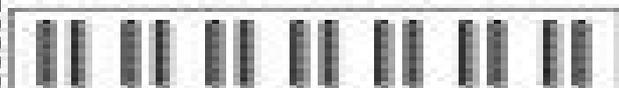
$$174 - 50 = 124$$

$$124 - 4 = 120$$

$$120 - 2 = 118$$

★ **Methods of Area**

Find the Product: $7 \times 20 =$



There are 14 tens.
 14 tens = 140

★ **ASSOCIATION PROPERTIES**

Commutative Property
 $3 + 4 = 4 + 3$

(add numbers in any order)

Associative Property
 $(1 + 2) + 3 = 1 + (2 + 3)$

(numbers can be grouped differently when adding)

Identity Property
 $7 + 0 = 7$

(any number plus ZERO stays the same)

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Table of Contents Georgia Math 3 Study Guide

1. Understanding the eBook Georgia Math 3 Study Guide
 - The Rise of Digital Reading Georgia Math 3 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Georgia Math 3 Study 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 Georgia Math 3 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Georgia Math 3 Study Guide
 - Personalized Recommendations
 - Georgia Math 3 Study Guide User Reviews and Ratings
 - Georgia Math 3 Study Guide and Bestseller Lists
5. Accessing Georgia Math 3 Study Guide Free and Paid eBooks
 - Georgia Math 3 Study Guide Public Domain eBooks

- Georgia Math 3 Study Guide eBook Subscription Services
- Georgia Math 3 Study Guide Budget-Friendly Options
- 6. Navigating Georgia Math 3 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Georgia Math 3 Study Guide Compatibility with Devices
 - Georgia Math 3 Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Georgia Math 3 Study Guide
 - Highlighting and Note-Taking Georgia Math 3 Study Guide
 - Interactive Elements Georgia Math 3 Study Guide
- 8. Staying Engaged with Georgia Math 3 Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Georgia Math 3 Study Guide
- 9. Balancing eBooks and Physical Books Georgia Math 3 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Georgia Math 3 Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Georgia Math 3 Study Guide
 - Setting Reading Goals Georgia Math 3 Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Georgia Math 3 Study Guide
 - Fact-Checking eBook Content of Georgia Math 3 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
- Interactive and Gamified eBooks

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