

# 8th Grade Math Review

## NC EOG IMPORTANT TOPICS

### FORMULAS

- Volume of a Cylinder:  $\pi r^2 h$
- Volume of a Cone:  $\frac{1}{3} \pi r^2 h$
- Volume of a Sphere:  $\frac{4}{3} \pi r^3$
- Slope-Intercept Form:  $y = mx + b$
- Slope Formula:  $\frac{y_2 - y_1}{x_2 - x_1}$
- Area of a Square:  $A = s^2$
- Area of a Rectangle:  $A = l \times w$
- Area of a Triangle:  $A = \frac{1}{2}bh$

### APPROXIMATING IRRATIONAL NUMBERS

$$\sqrt{27} \approx \sqrt{25 + 2} \approx \sqrt{25} + \frac{2}{2 \times \sqrt{25}} = 5 + \frac{2}{2 \times 5} = 5 + \frac{1}{5} = 5.2$$

### Pythagorean Theorem



Pythagorean Theorem:

$$\sqrt{a^2 + b^2} = c$$

$$a^2 + b^2 = c^2$$

Pythagorean Triple:

$$\sqrt{c^2 - a^2} = b$$

### SYSTEM OF EQUATIONS



### SCATTERPLOT RELATIONSHIPS



### WRITING LINEAR EQUATIONS

Find the Slope, Pick a Point, Plug it in.

### Pythagorean Triples

<p>perfect squares</p> $3^2 + 4^2 = 5^2$ <p>3-4-5</p>	<p>perfect squares</p> $5^2 + 12^2 = 13^2$ <p>5-12-13</p>	<p>perfect squares</p> $7^2 + 24^2 = 25^2$ <p>7-24-25</p>
<p>perfect squares</p> $8^2 + 15^2 = 17^2$ <p>8-15-17</p>	<p>perfect squares</p> $9^2 + 40^2 = 41^2$ <p>9-40-41</p>	<p>perfect squares</p> $11^2 + 60^2 = 61^2$ <p>11-60-61</p>

### INTERIOR & EXTERIOR ANGLES OF TRIANGLES



### INVERSE OPERATIONS



### TRANSFORMATIONS

### Graphing Slopes

Types of Slope:

- Positive Slope: 
- Negative Slope: 
- Zero Slope: 
- Undefined Slope: 

# 8th Grade Cst Study Guide

**Spectrum**



## **8th Grade Cst Study Guide:**

*8th Grade CST Science Practice Workbook* Monica Sevilla,2013-06-18 This book focuses on and reviews important concepts and skills within the 8th grade science curriculum in preparation for the CST *California Standards Tests Grade 8 Science Success Strategies Study Guide: CST Test Review for the California Standards Tests* Cst Exam Secrets Test Prep,2018-04-12 California Standards Tests Grade 8 Science Success Strategies helps you ace the California Standards Tests without weeks and months of endless studying Our comprehensive California Standards Tests Grade 8 Science Success Strategies study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you ve ever imagined California Standards Tests Grade 8 Science Success Strategies includes The 5 Secret Keys to CST Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific CST exam and much more

**8th Grade Cst Science Concept Review** Monica Sevilla,2012-04-21 8th Grade CST Science Review is a review guide for middle school students studying physical science in the California 8th grade curriculum Major concepts as well as problem solving is reviewed in this eBook in preparation for the CST **8th Grade CST Science Practice Workbook: Astronomy** Monica Sevilla,2013-05-15 The 8th Grade CST Science Practice Workbook Astronomy is a comprehensive practice guide for all middle school students studying the 8th grade California physical science curriculum Major concepts in Astronomy math skills problem solving and comprehension questions based on the California standards in science are emphasized This practice workbook is designed to prepare students for the test and academic success

Spectrum Test Prep, Grade 8 Spectrum,2015-01-05 Spectrum Test Prep Grade 8 includes strategy based activities for language arts and math test tips to help answer questions and critical thinking and reasoning The Spectrum Test Prep series for grades 1 to 8 was developed by experts in education and was created to help students improve and strengthen their test taking skills The activities in each book not only feature essential practice in reading math and language arts test areas but also prepare students to take standardized tests Students learn how to follow directions understand different test formats use effective strategies to avoid common mistakes and budget their time wisely Step by step solutions in the answer key are included These comprehensive workbooks are an excellent resource for developing skills for assessment success Spectrum the best selling workbook series is proud to provide quality educational materials that support your students learning

achievement and success      *8th Grade New York Regents Test Prep* Mark Shannon,2018-01-17 This test prep is good for kids who are on the fence and having trouble passing or need to increase their margin These kids will often say I DON T KNOW WHERE TO START when explaining their confusion This book address that problem with three approaches 1 In contrast with the other study guides that use random questions in their practice exams this book collated the questions into chapters based on the logic to solve them The 8th grade book is divided into nine chapters They are Logic Arithmetic Geometry Fractions Reading Graphs and tables Measurements including a ruler basic statistics order of operations and Algebra This book teaches basics then goes into practice exams with word problems Once the student is proficient with the questions organized into chapters then they are ready for random questions 2 This study guide has thousands of practice problems I have placed over 3100 videos on YouTube showing you how to work the problems3 I reviewed several years of past exams and placed enfaces on the easiest and most common questions Mastering these questions should yield a 75% to 80% If a student is already achieving this percentage the other guides or web site with random questions and covering all material might be best A book might be better for your student than the web sites for two reasons 1 The more common and easiest questions are using a ruler to measure The web designers don t know the size of your computer screen and can t determine if the student has measured correctly We can get a high percentage of these problems easily 2 When studying on a computer there are too many websites with the answers With a book parents can have greater assurance the work is being done This book is developed by a trained professional out of concern It is not the product of a large publishing house It is the results of one person who wants to help Best RegardsMark Shannon      **Reader's Index and Guide** ,1913      *Issues in Teaching and Education Policy, Research, and Special Topics: 2013 Edition* ,2013-05-01 Issues in Teaching and Education Policy Research and Special Topics 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Education Testing and Evaluation The editors have built Issues in Teaching and Education Policy Research and Special Topics 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Education Testing and Evaluation in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Teaching and Education Policy Research and Special Topics 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>      **How to Prepare for the State Standards** Bob Huson,Dale Lundin,Nancy Samuels,2009 Discusses effective ways to successfully study for and take California s standardized tests      **Course of Study for the Common Schools of Illinois** Illinois Education Association. County Superintendents' Section,1925      **Chicago Guide** ,1974      [Resources in Education](#) ,1994      **Methodologies for**

**Determining Reading Requirements of Military Occupational Specialists** John S. Caylor,1973      **Catalog of Copyright Entries** Library of Congress. Copyright Office,1952      **Heating, Ventilating, Air Conditioning Guide** ,1927

**8Th Grade SOL Virginia Test Prep** Mark Shannon,2018-01-22 This test prep is good for kids who are on the fence and having trouble passing or need to increase their margin These kids will often say I DON T KNOW WHERE TO START when explaining their confusion This book address that problem with three approaches 1 In contrast with the other study guides that use random questions in their practice exams this book collated the questions into chapters based on the logic to solve them The 8th grade book is divided into nine chapters They are Logic Arithmetic Geometry Fractions Reading Graphs and tables Measurements including a ruler basic statistics order of operations and Algebra This book teaches basics then goes into practice exams with word problems Once the student is proficient with the questions organized into chapters then they are ready for random questions 2 This study guide has thousands of practice problems I have placed over 3100 videos on YouTube showing you how to work the problems3 I reviewed several years of past exams and placed enfaces on the easiest and most common questions Mastering these questions should yield a 75% to 80% If a student is already achieving this percentage the other guides or web site with random questions and covering all material might be best A book might be better for your student than the web sites for two reasons 1 The more common and easiest questions are using a ruler to measure The web designers don t know the size of your computer screen and can t determine if the student has measured correctly We can get a high percentage of these problems easily 2 When studying on a computer there are too many websites with the answers With a book parents can have greater assurance the work is being done This book is developed by a trained professional out of concern It is not the product of a large publishing house It is the results of one person who wants to help

Best RegardsMark Shannon      **National Union Catalog** ,1968 Includes entries for maps and atlases      [CST Math Grades 7-8](#) Arlene Gordon Schlessinger,Xamonline,2003      **American Society of Heating and Ventilating Engineers Guide** American Society of Heating and Air-Conditioning Engineers,1927      **Instructor** ,1996

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