

Chapter 7 Mid-Chapter Test

(Lessons 7-1 through 7-4)

SCORE _____

Part I Write the letter for the correct answer in the blank at the right of each question.

1. Polygon $ABCD$ is similar to polygon $PQRS$. Which proportion must be true?

- A $\frac{AC}{AD} = \frac{PQ}{PS}$ B $\frac{BC}{CD} = \frac{QR}{RS}$ C $\frac{AB}{BD} = \frac{PQ}{QR}$ D $\frac{CD}{AB} = \frac{PQ}{RS}$

1. B

2. This fall, 126 students participated in the soccer program, while 54 played volleyball. What was the ratio of soccer players to volleyball players?

- F $\frac{3}{4}$ G $\frac{3}{7}$ H $\frac{4}{3}$ J $\frac{7}{3}$

2. J

3. The ratio of the measures of the angles of a triangle is 2:3:10. What is the least angle measure?

- A 12 B 15 C 24 D 36

3. C

4. Find the value of x .

- F 2 H 6
G 4.8 J 6.4



4. J

5. Rectangle $ABCD \sim$ rectangle $EFGH$, the perimeter of $ABCD$ is 54 centimeters and the perimeter of $EFGH$ is 36 centimeters. What is the scale factor of $ABCD$ to $EFGH$?

- A $\frac{2}{3}$ B $\frac{3}{2}$ C $\frac{3}{5}$ D $\frac{5}{3}$

5. B

Part II

For Questions 6 and 7, determine whether each pair of triangles is similar. Justify your answer.



6. No; SAS does not apply.

7. yes; SAS Similarity

8. Determine whether $\overline{MN} \parallel \overline{KL}$. Justify your answer.



9. Find DE .



8. Yes, parallel; $\frac{JM}{MN} = \frac{JN}{NL}$

9. 9

10. **RECTANGLES** A rectangle has a perimeter of 14 inches. A similar rectangle has a perimeter of 10 inches. If the length of the larger rectangle is 4 inches, what is the length of the smaller rectangle? Round to the nearest tenth.

10. 2.9 in.

Chapter 7 Test Geometry

Michael Seilmaier



Chapter 7 Test Geometry:

Scott, Foresman Geometry: Tests, 1990 **Princeton Review SAT Subject Test Math 1 Prep, 3rd Edition** The Princeton Review, 2019-12-10 SAT Subject Test Math 1 Prep 3rd Edition provides students with step by step problem solving strategies comprehensive review of all essential content including Algebra I II Geometry and Probability practice problems with detailed information for every type of problem on the test 2 full length practice tests and much more This 3rd edition includes a new quick look Study Guide expanded answer explanations and access to a new Online Student Tools section with additional college admissions help and info **CliffsNotes ACT B. T. P. S. Testing, BTPS Testing**, 2013-06-04 A fully revised edition with brand new content and four practice tests Includes four full practice tests with details answers and explanations Fully revised with brand new content unlike typical revised editions of test prep titles Features subject review materials for every discipline and an extensive math review **McGraw-Hill's SSAT/ISEE, 3rd Edition** Nicholas Falletta, 2012-04-05 A nationally known test prep teacher gives you the edge over the SSAT ISEE McGraw Hill s SSAT ISEE offers complete coverage of both forms grades 6 8 and 9 12 of the Secondary School Admission Test SSAT and all three forms grades 5 6 7 8 and 9 12 of the Independent School Entrance Examination ISEE the two exams required for admission by more than 2 000 private high schools nationwide and overseas Inside you ll find 5 full length sample tests two practice SSATs and three practice ISEEs with complete answer explanations Top 30 Tips for higher scores on test day Step by step review of all topics covered on the two exams Practical information for test takers Foreword by the Dean of Admission the Lawrenceville School

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statistical mathematical and computational aspects of the construction of packages and analysis of variance ANOVA programs Includes a disk at the back of the book that contains all program codes in four languages APL BASIC C and FORTRAN Presents illustrations of the dual space geometry for all designs including confounded designs *Basic Skills Curriculum, Grade 6* McGraw-Hill,2000-09 This updated series reinforces necessary skills in reading comprehension vocabulary grammar writing math applications problem solving test taking and more More than 600 pages Answer key included CD ROMs are PC and Macintosh compatible *McGraw-Hill Education SAT Subject Test Math Level 1, Fifth Edition* John J. Diehl,2018-11-23 We Will Help You Get Your Best Score With more than 125 years of experience in education McGraw Hill Education is the name you trust to deliver results This MHE guide is the most comprehensive and relevant SAT Subject Test prep tool on the market This edition provides 7 full length practice tests with thorough answer explanations A comprehensive review of all Math Level 1 concepts essential to success on the SAT Subject Test An extensive overview of the format of the test based on the most recent SAT Math Level 1 exams Unique test taking strategies and tips recommended by teachers to help you raise your score A customizable study plan to help you maximize the time you have to prepare TOP 25 LIST The book includes a description of the 25 concepts most crucial to review before you take the Subject Test in Math Level 1 TEST TAKING STRATEGIES Learn unique tips developed by teachers to help you avoid the test maker's traps **Ice Mechanics and Risks to Offshore Structures** T. Sanderson,1988-05-31 This is a book for which Arctic ice engineers and scientists have been waiting for years It is the first reference text to deal in a comprehensive way with ice loads on marine structures It is also written in a clear and attractive style and it is a pleasure to read Polar Record **3D Seismic Survey Design** Gijs J. O. Vermeer,2012 Since the first edition of 3D Seismic Survey Design appeared in 2002 seismic data acquisition has seen many changes most of which have been captured in this second edition This book by Gijs Vermeer describes in detail the properties of 3D acquisition geometries and shows how these properties naturally lead to the 3D symmetric sampling approach to 3D survey design Many examples from the literature are used to illustrate good and less good choices of acquisition parameters The link between survey parameters and noise suppression as well as imaging is an intrinsic part of the contents This book should be of great interest to the designer of 3D seismic surveys but also to every geophysicist who uses 3D seismic data to retrieve accurate information on the properties of the subsurface **Glencoe Algebra 1** McGraw-Hill/Glencoe,1997-03 **Math the Easy Way** Anthony Prindle,Katie Prindle,1996 The newest edition of this useful review covers basic arithmetic fractions decimals percents word problems and introductions to algebra and geometry Rules and definitions are clearly presented along with hundreds of exercises and examples A diagnostic exam end of chapter tests and a final comprehensive exam help students measure learning progress Answers included **Mathematics** Douglas R. Bumby,1978 Fundamentals of Mathematics Jack Barker,James Rogers,James Van Dyke,1991 Elementary Algebra Jerome E Kaufmann,KAREN L. SCHWITTERS,1999-11-04 Contains complete worked out

solutions for odd problems **Ssm Elementary Algebra** Kaufmann,Schwitters,2003-06 The student solutions manual provides worked out solutions to the odd numbered problems in the text **Basic College Mathematics** John Tobey,Jeffrey Slater,2004-10 This clear accessible treatment of mathematics features a building block approach toward problem solving realistic and diverse applications and chapter organizer to help users focus their study and become effective and confident problem solvers The Putting Your Skills to Work and new chapter end feature Math in the Media present readers with opportunities to utilize critical thinking skills analyze and interpret data and problem solve using applied situations encountered in daily life Chapter 7 Geometry has been extensively revised and re organized to include a new section 7 1 on angles and new section 7 4 devoted to triangles Increased coverage of estimating with fractions and decimals with new To Think About exercises in Sections 2 5 2 8 and 3 3 and a new lesson in Section 3 7 Coverage of fractions in Chapter 2 has been expanded as follows Section 2 6 now begins with a discussion of least common multiples so that the subsequent coverage of least common denominators is more complete a new lesson on order of operations in Section 2 8 offers readers additional review of these rules and practice applying them to fractions and a new mid chapter test on fractions appears after Section 2 5 Percent applications are now covered in two sections Sections 5 4 and 5 5 to allow for a more patient presentation of this important topic *Prealgebra* K. Elayn Martin-Gay,2000-07 Appropriate for freshman level prealgebra courses The Third Edition of Prealgebra emphasizes Elayn Martin Gay s unmatched ability to explain key concepts build problem solving skills and relate to students through the use of real life applications that are interesting relevant and practical Now in full color the text retains the numerous features that contributed to the success of the previous editions This updated revision includes an increased emphasis on geometry with a new chapter devoted to Geometry and Measurement along with new coverage of probability additional coverage of percent and rates and an increased emphasis on reading graphs to expand students problem solving opportunities

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