

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

G 4.8

H 6

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; $\frac{JM}{MK} = \frac{JN}{KL}$

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.

Test For Geometry 37

Lisa Zimmer Hatch, Scott A. Hatch

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Ceramic Materials for Energy Applications VI, Volume 37, Issue 6 Hua-Tay Lin,Josef Matyas,Yutai Katoh,Alberto Vomiero,2017-01-04 A collection of 15 papers from The American Ceramic Society s 40th International Conference on Advanced Ceramics and Composites held in Daytona Beach Florida January 24 29 2016 This issue includes papers presented in Symposia 6 Advanced Materials and Technologies for Energy Generation Conversion and Rechargeable Energy Storage Symposium 13 Advanced Ceramics and Composites for Sustainable Nuclear Energy and Fusion Energy and Focused Session 2 Advanced Ceramic Materials and Processing for Photonics and Energy *Proceedings of the 37th International MATADOR Conference* Srichand Hinduja,Lin Li,2012-10-08 Presented here are 97 refereed papers given at the 37th MATADOR Conference held at The University of Manchester in July 2012 The MATADOR series of conferences covers the topics of Manufacturing Automation and Systems Technology Applications Design Organisation and Management and Research The Proceedings of this Conference contain original papers contributed by researchers from many countries on different continents The papers cover the principles techniques and applications in aerospace automotive biomedical energy consumable goods and process industries The papers in this volume reflect the importance of manufacturing to international wealth creation the emerging fields of micro and nano manufacture the increasing trend towards the fabrication of parts using lasers the growing demand for precision engineering and part inspection techniques and the changing trends in manufacturing within a global environment

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aerospace coatings Shows future directions for simulation of complex wear scenarios , **ACT For Dummies, with Online Practice Tests** Lisa Zimmer Hatch, Scott A. Hatch, 2015-05-08 The fast and easy way to score higher on the ACT Does the thought of preparing for the ACT give you anxiety Fear not This 6th edition of ACT For Dummies with online practice tests gives you a competitive edge by fully preparing you for the ACT exam with subject reviews practice opportunities online full length practice tests and coverage of the optional writing test Written in the accessible and friendly For Dummies tone this hands on guide helps you assess where you need more help gets you up to speed on the questions you can expect to encounter on the actual ACT exam and will have you studying your way to test taking perfection before exam day The ACT is a standardized test used by college admissions boards to measure high school achievement Designed to assess a high school student s preparedness for college in the fields of English mathematics reading and science reasoning the ACT is a nationally recognized college entrance exam that is accepted by more than 90% of four year colleges and universities in the United States If you re a high school student preparing for this all important exam ACT For Dummies 6th edition with online practice tests gives you everything you need to raise your chances of scoring higher So what are you waiting for Get started Go online for one year of access to 6 ACT practice tests to sharpen your skills Tips to maximize your score on the ACT Strategies to stay focused on test day and manage your time wisely Practice problems and exercises to take your skills to the next level Tools to gauge how you measure up Whether you re preparing for the ACT for the time or are retaking the exam to improve your score ACT For Dummies 6th edition with online practice tests gives you everything you need to score higher [Proceedings of Fluid Mechanics and Fluid Power \(FMFP\) 2023, Vol. 5](#) K. R. Arun, G. Rajesh, Jaywant H. Arakeri, Hardik Kothadia, 2025-08-02 This book presents select proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power It covers recent research developments in the area of fluid mechanics measurement techniques in fluid flows computational fluid dynamics The key research topics discussed in this book are fundamental studies in flow instability and transition fluid structure interaction multiphase flows solidification melting cavitation porous media flows bubble and droplet dynamics bio mems micro scale experimental techniques flow control devices underwater vehicles bluff body bio fluid mechanics aerodynamics turbomachinery propulsion and power heat transfer and thermal engineering fluids engineering advances in aerospace and defence technology micro and nano systems engineering acoustics structures and fluids advanced theory and simulations novel experimental techniques in thermo fluids engineering and many more The book is a valuable reference for researchers and professionals interested in thermo fluids engineering **Experimental Tests of Mathematical Ability and Their Prognostic Value** Agnes Low Rogers, 1918

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