

Unit 7 Test Study Guide

(Polygons & Quadrilaterals)

Name: _____
Date: _____ Per: _____

Topic 1: Angles of Polygons

1. What is the formula for the sum of the interior angle measures of a polygon?

$$S = (n-2) \cdot 180$$

3. Find the sum of the interior angle measures of a 35-gon.

$$(35-2) \cdot 180 = 5440^\circ$$

5. If the sum of the interior angles of a polygon is 3780° , how many sides does it have?

$$\begin{aligned} 3780 &= (n-2) \cdot 180 \\ 21 &= n-2 \\ n &= 23 \end{aligned}$$

7. What is the sum of the exterior angle measures of any polygon?

$$360^\circ$$

9. If the exterior angle of a regular polygon measures 24° , how many sides does it have?

$$\frac{360}{24} = 15 \text{ sides}$$

11. Solve for x .

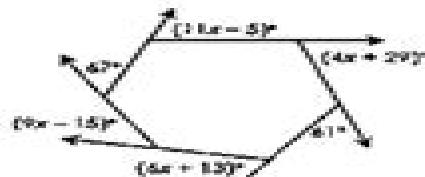
$$(8-2) \cdot 180 = 1080$$

$$43x + 392 = 1080$$

$$\begin{aligned} 43x &= 688 \\ x &= 16 \end{aligned}$$



13. Solve for x .



2. What is the formula to find the measure of each interior angle of a regular polygon?

$$\frac{(n-2) \cdot 180}{n}$$

4. Six angles of a heptagon measure 107° , 139° , 131° , 110° , 145° , and 128° . What is the measure of the seventh angle?

$$\begin{aligned} (7-2) \cdot 180 &= 900 \\ 900 - 740 &= 140^\circ \end{aligned}$$

6. What is the measure of each interior angle of a regular 18-gon?

$$\begin{aligned} (18-2) \cdot 180 &= 2880 \\ 2880 &= 160^\circ \end{aligned}$$

8. What is the measure of each exterior angle of a regular 30-gon?

$$\frac{360}{30} = 12^\circ$$

10. If the interior angle of a regular polygon is 162° , how many sides does it have?

$$\begin{aligned} \text{Ext} &= 18^\circ \\ \frac{360}{18} &= 20 \text{ sides} \end{aligned}$$

12. If the figure is a regular polygon, solve for x .

$$\frac{(5-2) \cdot 180}{5} = 108$$

$$\begin{aligned} 7x + 31 &= 108 \\ 7x &= 77 \\ x &= 11 \end{aligned}$$



$$30x + 150 = 360$$

$$\begin{aligned} 30x &= 210 \\ x &= 7 \end{aligned}$$

Geometry Polygons And Quadrilaterals Study Guide Questions

**Sharon Weiner Green,Ira K. Wolf,Brian
W. Stewart**

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Bove,1992 Guidelines for implementing geometry standards for grades 5 8 as recommended by NCTM Advanced Topics in Elementary Geometry Roger McClintock,Ruth McClintock,197? *Mathematics Education in Secondary Schools and Two-year Colleges* Paul J. Campbell,Louise S. Grinstein,1988 **Mathematical Questions from the Classroom** Richard J. Crouse,Clifford W. Sloyer,1987 *Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly* New South Wales. Parliament,1906 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 *Official GRE Quantitative Reasoning Practice Questions* Educational Testing Service,2014-08-15 150 REAL GRE Quantitative Reasoning questions direct from the test maker The best way to prepare for the Quantitative Reasoning measure of the GRE revised General Test is with real GRE test questions and that is what you will find in this unique guide Specially created for you by ETS it offers 150 actual Quantitative Reasoning questions with complete explanations Plus this guide includes a review of math topics likely to appear on the Quantitative Reasoning measure Only ETS can show you exactly what to expect on the test So for in depth practice and accurate test preparation for the Quantitative Reasoning measure this guide is your best choice Look inside to find Real GRE Quantitative Reasoning test questions arranged by content and question type to help you build your test taking skills Plus mixed practice sets Answers and explanations for every question GRE Math Review covering math topics you need to know for the test ETS s own test taking strategies Valuable hints and tips to help you do your best on the test Official information on the GRE Quantitative Reasoning measure The facts about the test content structure scoring and more straight from ETS **The Problem of Teaching High School Pupils how to Study** Joseph Seibert Butterweck,1926 The Macmillan Guide to Correspondence Study Modoc Press,1996 *The SAT I for Dummies* Suzee Vlk,1997 Sheer Academic Torture or Sinister Adolescent Trial No matter what the folks at the College Entrance Examination Board claim we know what SAT really stands for And love them as if or hate them the rational response you ve got to take them if you want to get into most colleges Fully revised to reflect the SAT s new focus the fifth edition of The SAT I For Dummies is the painless easy way to master the test and get the best possible score Suzee Vlk a test prep guru with nearly thirty years of coaching experience supplies you with The most up to date sample questions Two full practice tests Guidance on to approach each different type of question Tips on how to avoid test tricks and traps Relaxation techniques that help you stay calm and focused Techniques for beating the clock Comprehensive reviews of the basics in all categories With Suzee as your guide you ll discover how to outsmart the SAT You ll identify the point behind each of the various styles and types of questions and understand what each is meant to test And you ll gain the confidence you need to Have the last word on sentence completions Infer the meaning in every critical reading question Take the full measure of the geometry questions Make the Xs Ys and Zs dance to your tune on the algebra questions Hand in an incomparable performance on quantitative comparisons Know the what where when who and how many of every problem solving question Get The SAT I For Dummies 5 th Edition and rack up the points you need to enter the college of

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