

Unit 7 Test Study Guide (Polygons & Quadrilaterals)

Name: _____

Date: _____ Block: _____

Topic 1: Interior Angles of Polygons

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

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

3. Find the sum of the interior angles of a 35-gon.

$$S = (35-2) \cdot 180$$

$$= \boxed{5940^\circ}$$

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

$$3780 = (n-2)180$$

$$21 = n-2$$

$$\boxed{23 = n}$$

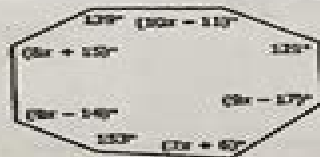
7. Solve for x .

$$(S = 1080^\circ)$$

$$43x + 392 = 1080$$

$$43x = 688$$

$$\boxed{x = 16}$$



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

$$\text{Int} \angle = \frac{S}{n}$$

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

$$(S = 900^\circ)$$

$$\boxed{140^\circ}$$

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

$$(S = 2880^\circ)$$

$$\frac{2880}{18} = \boxed{160^\circ}$$

8. Solve for x .

$$(S = 540^\circ)$$

$$(\text{Int} = 108^\circ)$$

$$7x + 31 = 108$$

$$7x = 77$$

$$\boxed{x = 11}$$



Topic 2: Exterior Angles of Polygons

9. What is the sum of the exterior angles of any polygon?

$$\boxed{360^\circ}$$

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

$$\frac{360}{24} = \boxed{15}$$

13. Solve for x .



$$30x + 150 = 360$$

$$30x = 210$$

$$\boxed{x = 7}$$

10. What is the measures of each exterior angle of a regular nonagon?

$$\frac{360}{9} = \boxed{40^\circ}$$

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

$$\text{ext} = 18^\circ$$

$$\frac{360}{18} = \boxed{20}$$

Geometry Unit 1 Answer Key

Wolfgang Guggemos

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Table of Contents Geometry Unit 1 Answer Key

1. Understanding the eBook Geometry Unit 1 Answer Key
 - The Rise of Digital Reading Geometry Unit 1 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Unit 1 Answer Key
 - 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 Geometry Unit 1 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Unit 1 Answer Key
 - Personalized Recommendations
 - Geometry Unit 1 Answer Key User Reviews and Ratings
 - Geometry Unit 1 Answer Key and Bestseller Lists
5. Accessing Geometry Unit 1 Answer Key Free and Paid eBooks
 - Geometry Unit 1 Answer Key Public Domain eBooks
 - Geometry Unit 1 Answer Key eBook Subscription Services
 - Geometry Unit 1 Answer Key Budget-Friendly Options

6. Navigating Geometry Unit 1 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Unit 1 Answer Key Compatibility with Devices
 - Geometry Unit 1 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Unit 1 Answer Key
 - Highlighting and Note-Taking Geometry Unit 1 Answer Key
 - Interactive Elements Geometry Unit 1 Answer Key
8. Staying Engaged with Geometry Unit 1 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Unit 1 Answer Key
9. Balancing eBooks and Physical Books Geometry Unit 1 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Unit 1 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometry Unit 1 Answer Key
 - Setting Reading Goals Geometry Unit 1 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Unit 1 Answer Key
 - Fact-Checking eBook Content of Geometry Unit 1 Answer Key
 - 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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