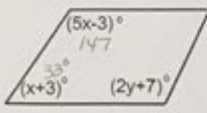
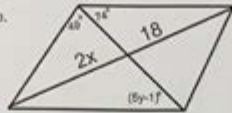
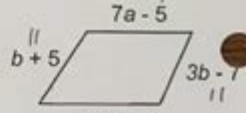


# Unit 7 Test Polygons And Quadrilaterals

4. Find the value of the variable in each parallelogram below.

a.   
 $5x-3 + x+3 = 180$   
 $6x = 180$   
 $x = 30$   
 $2y+7 = 147$   
 $2y = 140$   
 $y = 70$   
 $x = 30$     $y = 70$

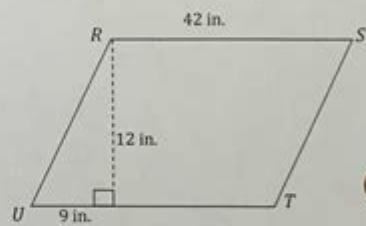
b.   
 $2x = 18$   
 $x = 9$   
 $5y-1 = 74$   
 $5y = 75$   
 $y = 15$   
 $x = 9$     $y = 15$

c.   
 $7a-5 = 3b-7$   
 $7a = 3b-2$   
 $7a = 14$   
 $a = 2$   
 $b+5 = b+3$   
 $12 = 2b$   
 $b = 6$   
 $a = 2$     $b = 6$

5. Find the area and perimeter of parallelogram RSTU.

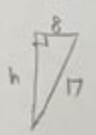
$A = bh$   
 $b = 42$   
 $h = 12$   
 $A = (42)(12)$   
 $A = 504 \text{ in.}^2$

$9^2 + 12^2 = (RU)^2$   
 $RU = 15$   
 $P = 15 + 42 + 15 + 42$   
 $P = 114 \text{ in.}$

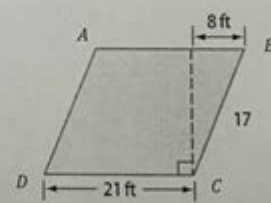


6. Find the area of parallelogram ABCD.

$A = bh$   
 $b = 21$   
 $h = ?$

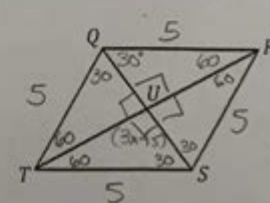
  
 $h^2 + 8^2 = 17^2$   
 $h = 15$

$A = 21(15)$   
 $A = 315 \text{ ft}^2$



7. QRST is a rhombus.  $QR = 5$  inches,  $m\angle RQS = 30^\circ$ ,  $m\angle TUS = (3x - 15)^\circ$ . Find the following measures.

a.  $QT = 5$   
b.  $m\angle RSQ = 30^\circ$   
c.  $m\angle RTS = 60^\circ$   
d.  $x = 35$



## Ace Your Unit 7 Test: Mastering Polygons and Quadrilaterals

Are you staring down the barrel of your Unit 7 test on polygons and quadrilaterals, feeling a little overwhelmed? Don't worry! This comprehensive guide is designed to help you conquer those geometric shapes and ace your exam. We'll cover everything from basic definitions to complex theorems, providing clear explanations, helpful tips, and practice problem examples to solidify your understanding. This isn't just another study guide; it's your personalized roadmap to success on your Unit 7 test on polygons and quadrilaterals.

# Understanding the Fundamentals: Polygons

Let's start with the basics. What exactly is a polygon?

What is a Polygon? A polygon is a closed two-dimensional figure formed by connecting three or more line segments. It's crucial to remember the "closed" and "line segments" parts – open figures or those with curved lines are not polygons.

Types of Polygons: Polygons are categorized by the number of sides they have. Here are a few examples:

Triangle (3 sides): The simplest polygon. We have equilateral (all sides equal), isosceles (two sides equal), and scalene (no sides equal) triangles.

Quadrilateral (4 sides): This is a large category we'll explore in more detail below.

Pentagon (5 sides): Think of the Pentagon building in Washington D.C.!

Hexagon (6 sides): Common in honeycomb structures.

Heptagon (7 sides) Octagon (8 sides), Nonagon (9 sides), Decagon (10 sides), etc. The possibilities are endless!

Regular vs. Irregular Polygons: A regular polygon has all sides and all angles equal. An irregular polygon has unequal sides or unequal angles (or both).

## Diving Deep into Quadrilaterals: A Comprehensive Overview

Quadrilaterals form a significant portion of your Unit 7 test. Understanding their properties is key. Remember, all quadrilaterals are polygons, but not all polygons are quadrilaterals.

Types of Quadrilaterals:

Parallelogram: A quadrilateral with both pairs of opposite sides parallel. Key properties include opposite sides being congruent and opposite angles being congruent.

Rectangle: A parallelogram with four right angles.

Rhombus: A parallelogram with all four sides congruent.

Square: A rectangle with all four sides congruent (and therefore a special type of rhombus and parallelogram).

Trapezoid (or Trapezium): A quadrilateral with exactly one pair of parallel sides. Isosceles trapezoids have congruent legs (the non-parallel sides).

Kite: A quadrilateral with two pairs of adjacent congruent sides.

Key Properties to Remember:

For each type of quadrilateral, focus on understanding its unique properties. Knowing these properties will allow you to identify different quadrilaterals and solve problems related to their

angles, sides, and diagonals. For instance, knowing the sum of interior angles of a quadrilateral is always 360 degrees is crucial.

## **Solving Problems: Practice Makes Perfect**

The best way to prepare for your Unit 7 test is through practice. Work through various problems involving:

Calculating angles: Use the properties of different quadrilaterals to find unknown angles.

Finding side lengths: Apply theorems and properties to determine missing side lengths.

Identifying quadrilaterals: Given a diagram or description, identify the type of quadrilateral.

Proving properties: Some problems may require you to prove certain properties of quadrilaterals.

Remember to draw diagrams to visualize the problem and clearly label all known values.

## **Advanced Concepts and Theorems (If Applicable to Your Unit)**

Depending on the scope of your Unit 7 test, you might encounter more advanced concepts, such as:

Area formulas for different quadrilaterals: Know the formulas for calculating the area of parallelograms, rectangles, rhombuses, trapezoids, and kites.

Pythagorean Theorem: This is frequently used in problems involving right-angled quadrilaterals.

Similar and Congruent Polygons: Understanding the concepts of similarity and congruence is vital for solving various geometry problems.

## **Conclusion**

Mastering polygons and quadrilaterals requires understanding their definitions, properties, and relationships. By thoroughly reviewing the material presented here and practicing problem-solving, you'll be well-equipped to tackle your Unit 7 test with confidence. Remember, consistent effort and practice are the keys to success. Good luck!

## **FAQs**

1. What is the difference between a rhombus and a square? A rhombus has all four sides equal, while a square has all four sides equal and four right angles. A square is a special type of rhombus.
2. How do I find the area of a trapezoid? The area of a trapezoid is calculated using the formula:  $\text{Area} = (1/2) (\text{base1} + \text{base2}) \text{ height}$ , where base1 and base2 are the lengths of the parallel sides, and height is the perpendicular distance between them.
3. What is the sum of the interior angles of a pentagon? The sum of the interior angles of any polygon with  $n$  sides is given by the formula  $(n-2) 180$  degrees. For a pentagon ( $n=5$ ), the sum is  $(5-2) 180 = 540$  degrees.
4. Are all rectangles parallelograms? Yes, all rectangles are parallelograms because they satisfy the definition of a parallelogram (opposite sides parallel).
5. How can I identify a kite? A kite has two pairs of adjacent sides that are congruent (equal in length), and its diagonals intersect at right angles. One diagonal bisects the other.

**unit 7 test polygons and quadrilaterals: Ganit Mathematics** □ **8** Lata Wishram, GANIT MATHEMATICS series consists of ten textbooks; two textbooks for Primer A and B, eight textbooks for classes 1-8. This series is strictly based on the syllabus prescribed by the Council for the Indian School Certificate. The series has been developed to guide the young minds to observe and experience mathematics all around them. Each concept has been related to everyday life in order to develop a spirit of curiosity and discovery. Concepts are gradually built up with easy-to-follow steps and plenty of examples.

**unit 7 test polygons and quadrilaterals: Headway Test Prep for ACT Math** Ryan Lloyd, 2008-06 Prepare for the math portion of the ACT test with this study manual from Headway Test Prep! This book covers in great detail the high school-level math featured on the exam, including pre-algebra, elementary algebra, advanced algebra, geometry, and trigonometry. Besides teaching the material with thorough explanations, the manual contains numerous definitions, theorems, and formulas. It also has hundreds of examples to test your understanding of the concepts. This text is ideal for the high school student considering college. For most of the topics, no prior understanding of the material is necessary. The book starts from the beginning of math knowledge and works up.

**unit 7 test polygons and quadrilaterals: Year 7 Mathematics** A. S. Kalra, 2004 This book is suitable for students of all abilities studying Year 7 Mathematics. It has been specifically written to help students revise their work and succeed in all their class tests, half-yearly and yearly exams. This is a revised and extended edition with over fifty extra pages of work for students to complete. In this book you will find: Topics covering the complete Year 7 Australian Curriculum Mathematics course Two hundred pages of practice exercises Fourteen topic tests Three practice exams Answers to all questions

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In order to align the SAT with the math curriculum taught in high schools, the SAT exam has been expanded to include Algebra II materials. 411 SAT Algebra and Geometry Questions is created to offer you a rigorous preparation for this vital section. If you are planning to take the SAT and need extra practice and a more in-depth review of the Math section, here's everything you need to get started. 411 SAT Algebra and Geometry Questions is an imperative study tool tailored to help you achieve your full test-taking potential. The most common math skills that you will encounter on the math portion of the SAT are covered in this book. Increase your algebra and geometry skills with proven techniques and test your grasp of these techniques as you complete 411 practice questions,

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**unit 7 test polygons and quadrilaterals: ASVAB 2017-2018 Strategies, Practice & Review with 4 Practice Tests** Kaplan Test Prep, 2016-07-05 Offers test-taking tips, diagnostic tests, review, and three practice exams with answers and detailed explanations for all portions of the ASVAB.

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concepts Posttest at the end of the book shows your child how well they understand key concepts A glossary explains key terms that students will encounter in the book Topics covered: Solving problems with rational numbers Approximating irrational numbers Ratios, proportions, and percents Roots and exponents Performing operations with scientific notation Analyzing and solving linear equations and pairs of linear equations Graphing proportional relationships and functions Customary and metric units of measure, including conversions Geometric transformations Using the Pythagorean Theorem Solving problems involving volume of cones and spheres Analyzing patterns in bivariate data, including probability

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**unit 7 test polygons and quadrilaterals: SWYK on STAAR Math Gr. 7, Parent/Teacher Edition** Show What You Know Publishing, 2013-03-01 Correlates with the Student Workbook; Reviews the assessed Texas Essential Knowledge and Skills (TEKS) for Mathematics; Provides correct answers and analyses for the Assessments; Correlation charts and skills charts help educators track students' strengths and weaknesses with STAAR. Includes Practice Tutorial CD for use on screen or IWB.

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