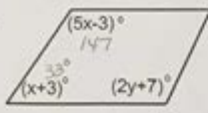
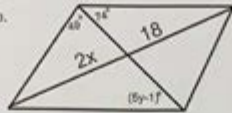



Unit 7 Test Polygons And Quadrilaterals

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

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

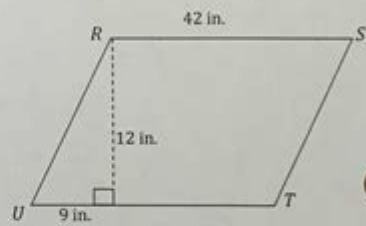
b. 
 $2x = 18$
 $x = 9$
 $5y-1 = 74$
 $5y = 75$
 $y = 15$
 $x = 9$ $y = 15$

c. 
 $7a-5 = 3b-7$
 $12 = 2b$
 $b = 6$
 $7a-5 = 9$
 $7a = 14$
 $a = 2$
 $a = 2$ $b = 6$

5. Find the area and perimeter of parallelogram RSTU.

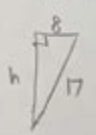
$A = bh$
 $b = 42$
 $h = 12$
 $A = (42)(12)$
 $A = 504 \text{ in.}^2$

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

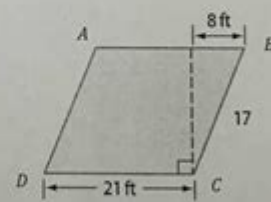


6. Find the area of parallelogram ABCD.

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


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

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



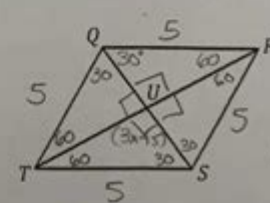
7. QRST is a rhombus. $QR = 5$ inches, $m\angle RQS = 30^\circ$, $m\angle TUS = (3x - 15)^\circ$. Find the following measures.

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.

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