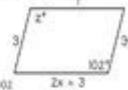
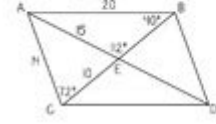
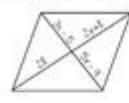
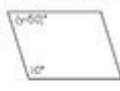


Unit 7 Test Study Guide Polygons And Quadrilaterals

9. Which statement is NOT a guaranteed property of parallelograms? a) Opposite sides are congruent b) Opposite angles are supplementary c) Consecutive angles are supplementary d) Diagonals bisect each other	10. Find the value of the variables.  a) $x = 5, y = 3, z = 102$ b) $x = 2, y = 1, z = 102$ c) $x = 2, y = 3, z = 102$ d) $x = 2, y = 3, z = 18$
11. ABCD is a parallelogram. Find the indicated values.  BE = _____ $m\angle CBD =$ _____ DE = _____ $m\angle BCD =$ _____ BC = _____ $m\angle AEC =$ _____ BD = _____ $m\angle BAC =$ _____ DC = _____ $m\angle CAD =$ _____	
12. The figure is a parallelogram. Find the value of x and y.  a) $x = 2, y = 10$ b) $x = 10, y = 2$ c) $x = 7, y = 8$ d) $x = 2, y = 8$	13. Find the value of y for the parallelogram below.  a) 70 b) 60 c) 110 d) 80
14. What is the most specific name for the parallelogram below?  a) kite b) rhombus c) rectangle d) square	15. What is the most specific name for the parallelogram below?  a) kite b) rhombus c) rectangle d) square

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Unit 7 Test Study Guide: Conquer Polygons and Quadrilaterals!

Are you facing your Unit 7 test on polygons and quadrilaterals and feeling overwhelmed? Don't panic! This comprehensive study guide is designed to help you ace that test. We'll cover all the key concepts, definitions, and problem-solving techniques you need to know, making the seemingly daunting task of mastering polygons and quadrilaterals manageable and even enjoyable. This guide provides a structured approach, focusing on the essential elements to ensure you're fully prepared. Let's dive in!

What are Polygons? Defining the Basics

Before tackling the complexities of quadrilaterals, we need a solid understanding of polygons themselves. A polygon is a closed two-dimensional figure formed by connecting three or more line segments (sides). Each line segment intersects exactly two others at its endpoints, forming vertices. It's crucial to understand the different types of polygons based on their number of sides. This includes:

Triangles: Three sides

Quadrilaterals: Four sides (we'll delve deeper into these later)

Pentagons: Five sides

Hexagons: Six sides

Heptagons: Seven sides

Octagons: Eight sides

Nonagons: Nine sides

Decagons: Ten sides

And so on... Remember, the key characteristics are closed figures and straight sides. Curved lines or open figures are not polygons.

Understanding Angles in Polygons: Interior and Exterior

Polygons have both interior and exterior angles. The interior angles are the angles formed inside the polygon at each vertex. The sum of the interior angles of a polygon can be calculated using the formula: $(n-2) 180^\circ$, where 'n' represents the number of sides. For example, a triangle (n=3) has interior angles totaling $(3-2) 180^\circ = 180^\circ$.

Exterior angles, on the other hand, are formed by extending one side of the polygon at each vertex. The sum of the exterior angles of any polygon is always 360° . Understanding this relationship between interior and exterior angles is fundamental to solving many polygon problems.

Diving Deep into Quadrilaterals: A Detailed Look

Quadrilaterals are a special category of polygons with four sides and four angles. Several types of quadrilaterals exist, each with its unique properties:

1. Parallelograms:

Parallelograms have two pairs of parallel sides. Key properties include:

Opposite sides are congruent (equal in length).

Opposite angles are congruent.

Consecutive angles are supplementary (add up to 180°).

Diagonals bisect each other (cut each other in half).

2. Rectangles:

Rectangles are parallelograms with four right angles (90° angles). They inherit all the properties of parallelograms, plus the added characteristic of having all angles equal.

3. Rhombuses:

Rhombuses are parallelograms with all four sides congruent. They share parallelogram properties but also have diagonals that are perpendicular bisectors of each other.

4. Squares:

Squares are the most specialized quadrilaterals. They are both rectangles and rhombuses, possessing all the properties of both shapes: four right angles, four congruent sides, and diagonals that are perpendicular bisectors.

5. Trapezoids:

Trapezoids have only one pair of parallel sides. They are distinct from parallelograms because they lack the property of two pairs of parallel sides. Isosceles trapezoids are a specific type where the non-parallel sides are congruent.

6. Kites:

Kites have two pairs of adjacent congruent sides. Their diagonals are perpendicular, but only one diagonal is bisected by the other.

Problem-Solving Strategies for Polygons and Quadrilaterals

Practice is key to mastering polygons and quadrilaterals. Familiarize yourself with the formulas and properties mentioned above. Work through various problems, starting with simpler examples and progressing to more complex ones. Focus on identifying the type of polygon, applying the relevant properties, and using the appropriate formulas to solve for unknown angles or side lengths.

Test Preparation Tips for Success

Review your notes: Go over your class notes, paying close attention to definitions, theorems, and examples.

Practice problems: Work through plenty of practice problems from your textbook or online resources.

Identify your weaknesses: Pinpoint the areas where you're struggling and focus on those topics.

Seek help: Don't hesitate to ask your teacher or tutor for help if you're stuck.

Get enough sleep: A well-rested mind performs better on tests.

Conclusion

Mastering polygons and quadrilaterals requires understanding their definitions, properties, and relationships. By systematically reviewing the information in this study guide and practicing problem-solving, you'll build the confidence and knowledge you need to succeed on your Unit 7 test. Remember to use this guide as a tool, actively engaging with the material, and don't hesitate to revisit sections as needed. Good luck!

FAQs

1. What's the difference between a regular and irregular polygon? A regular polygon has all sides and angles congruent, while an irregular polygon does not.
2. How do I find the area of a trapezoid? The area of a trapezoid is calculated using the formula: $A = \frac{1}{2} h (b_1 + b_2)$, where 'h' is the height and 'b1' and 'b2' are the lengths of the parallel bases.
3. Are all squares rectangles? Are all rectangles squares? All squares are rectangles, but not all rectangles are squares. Squares are a specific type of rectangle with all sides congruent.
4. What are the properties of an isosceles trapezoid? An isosceles trapezoid has one pair of parallel sides and the non-parallel sides are congruent. Its base angles (angles on the same base) are also congruent.
5. How can I tell the difference between a rhombus and a kite? Both have four sides, but a rhombus has two pairs of parallel sides, while a kite has two pairs of adjacent congruent sides. Only one diagonal of a kite is bisected.

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descriptions of mathematical models. The Study Guides can serve as either a self-study professional development resource or as the basis for a deep group study of the standards for a particular grade. For teachers who are new to the classroom or the standards, the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful. Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year. The Eureka Math Curriculum Study Guide, Grade 3 provides an overview of all of the Grade 3 modules, including Properties of Multiplication and Division and Solving Problems with Units of 2–5 and 10; Place Value and Problem Solving with Units of Measure; Multiplication and Division with Units of 0, 1, 6–9, and Multiples of 10; Multiplication and Area; Fractions as Numbers on the Number Line; and Collecting and Displaying Data.

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