

Quadrilaterals and Polygons Worksheet

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This worksheet is designed to assess your understanding of quadrilaterals and polygons. You will be required to identify and classify quadrilaterals, recognize and apply the definitions of different types of quadrilaterals, and solve problems involving quadrilateral properties.

hoo	se the correct answer for each question.
1.	What is the defining property of a parallelogram? A) All sides are equal B) All angles are equal C) Opposite sides are parallel D) Opposite angles are equal
2.	Which type of quadrilateral has all sides of equal length and all internal angles of 90 degrees? A) Rectangle B) Square C) Rhombus D) Trapezoid
3.	What is the name of a quadrilateral with two pairs of opposite sides of equal length? A) Parallelogram B) Rectangle C) Rhombus D) Trapezoid
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4.	What is the sum of the interior angles of a quadrilateral? A) 180 degrees B) 270 degrees C) 360 degrees D) 450 degrees

5. Which type of quadrilateral has all sides of equal length?	
A) Square	
B) Rhombus	
C) Rectangle	
D) Trapezoid	

Secti	on 2: Short Answer Questions
Answe	er each question in 1-2 sentences.
1.	What is the difference between a rectangle and a square? Provide an example of each.
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۷.	Describe the properties of a rhombus and provide a real-world example of its application.
	What is the name of a quadrilateral with one pair of opposite sides of equal length and one pair of opposite sides of unequal length?
4.	What is the perimeter of a quadrilateral with sides of length 5 cm, 6 cm, 7 cm, and 8 cm?
5.	What is the area of a rectangle with a length of 10 cm and a width of 5 cm?
Secti	on 3: Diagram Identification
Identii	fy the type of quadrilateral and describe its properties.
	A B

2. A ---- B

3. A B	 			
	3. А В	 	 	
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Section 4: Problem-Solving
 Solve each problem and show your work. A rectangular garden measures 10 meters by 5 meters. If a path of 1 meter wide is built around the garden, what is the area of the path? A quadrilateral has two pairs of opposite sides of equal length. If one pair of opposite sides is 6 cm long, and the other pair is 8 cm long, what is the perimeter of the quadrilateral?
Section 5: Challenge Questions
Answer each question in 1-2 sentences. 1. What is the name of a quadrilateral with all sides of equal length and all internal angles of 120 degrees? The sentences of the sentences of the sentence o
2. Describe the properties of a kite and provide a real-world example of its application.
3. What is the sum of the exterior angles of a quadrilateral?
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4. What is the area of a quadrilateral with a base of 10 cm and a height of 5 cm?
5. What is the perimeter of a quadrilateral with sides of length 3 cm, 4 cm, 5 cm, and 6 cm?

Conclusion

This worksheet is designed to assess your understanding of quadrilaterals and polygons. Remember to read each question carefully and show your work for each problem. Good luck!

