Vertices, Sides, Angles and Diagonals of a Quadrilateral

A. Choose the Correct Answer:

B.

C.

the perimeter.

Choose the Correct Answer:	
1. How many vertices does every quadrilateral have?	
a) 2	
b) 3	
c) 4	
d) 5	
2. The line segment joining opposite corners (non-adjacent vertices) of	а
quadrilateral is called a:	
a) Side	
b) Angle	
c) Diagonal	
d) Median	
3. In any quadrilateral, the sum of all interior angles is:	
a) 180°	
b) 270°	
c) 360°	
d) 540°	
Write the Missing Terms to Complete the Sentences:	
1. A quadrilateral has vertices and sides.	
2. A diagonal connects two vertices of a quadrilateral.	
3. The number of diagonals in any quadrilateral is	
4. The point where two sides of a quadrilateral meet is called a	
5. Adjacent sides of a quadrilateral share a common	
Figure out the answers to these questions:	
1. Identify and name all the vertices, sides, angles, and diagonals of quadrilated ABCD.	ral
2. Draw a quadrilateral and mark its sides, angles, and diagonals. Label everythic clearly.	ng

3. If a quadrilateral has sides AB = 4 cm, BC = 5 cm, CD = 3 cm, and DA = 6 cm, find

- 4. How many diagonals can be drawn from one vertex of a quadrilateral? Explain your answer with a diagram.
- 5. Write the names of the pairs of opposite and adjacent angles in quadrilateral PQRS.

D. Mark each sentence with a True (✔) or False (✗):

1.	A quadrilateral has 2 diagonals.	
2.	The diagonals of a quadrilateral are always equal.	
3.	All four sides of a quadrilateral can be of different lengths.	
4.	Two sides that meet at a common vertex are called opposite sides.	
5.	Each angle in a quadrilateral is formed by two adjacent vertices.	

E. Challenge yourself with these questions:

- 1. Without drawing, list the names of the diagonals that can be formed in quadrilateral WXYZ.
- 2. Measure and compare the lengths of diagonals in a rectangle and a rhombus using a scale and explain the observation.
- 3. Create a quadrilateral using paper strips. Label all vertices, sides, and diagonals.
- 4. Write a short paragraph explaining the relationship between sides and angles in a quadrilateral.
- 5. If a quadrilateral has angles 90°, 85°, and 95°, find the fourth angle.