

116. Geometry & Trigonometry – Properties of Quadrilaterals and Special Triangles

Practice Questions

1. What is the sum of the interior angles in a quadrilateral?
2. A parallelogram has one angle of 70° . Find an adjacent angle.
3. A rectangle has two angles marked as $2x^\circ$. Find x .
4. A rhombus has one angle of 120° . Find an adjacent angle.
5. A trapezium has one pair of parallel sides. The angles on one side of the parallel lines are x° and 68° . Find x .
6. A square has diagonals that bisect each other at 90° . True or false?
7. A kite has one angle of 90° and another of 75° . Find the other two angles.
8. A parallelogram has two angles of 110° . Find the other two angles.
9. A triangle has angles 40° and 55° . What type of triangle is it?
10. An equilateral triangle has three equal angles. Find each angle.

Scenario Questions

1. A window is in the shape of a parallelogram. One angle is 120° . Find the other three angles.
2. A kite-shaped sign has one angle of 90° and another of 85° . Find the other two angles.
3. A bridge support is shaped like an isosceles triangle. One base angle is 65° . Find the other base angle and the top angle.
4. A trapezium-shaped table has angles of 80° and 100° on one side of the parallel lines. Find the angles on the other side.
5. A flag is in the shape of a right-angled triangle. If one angle is 35° , find the other non-right angle.
6. A rhombus-shaped mirror has one angle of 70° . Find all the other angles.
7. A picture frame is in the shape of a square. What are the properties of its diagonals?
8. A doorstep is shaped like a scalene triangle. What does this mean about its sides and angles?
9. A sports pitch is a rectangle. What are the properties of its opposite angles and sides?
10. A triangular road sign is isosceles. If its base angle is 72° , find the third angle.

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Practice Questions

1. Sum of interior angles: 360°
2. Adjacent angle: 110°
3. $x = 45$
4. Adjacent angle: 60°
5. $x = 112^\circ$
6. True
7. Other two angles: 90° and 105°
8. Other two angles: 70° and 70°
9. Scalene triangle
10. Each angle: 60°

Scenario Questions

1. Other angles: 60° , 120° , 60°
2. Other two angles: 90° and 95°
3. Other base angle: 65° ; Top angle: 50°
4. Angles on the other side: 80° and 100°
5. Other non-right angle: 55°
6. Other angles: 70° , 110° , 110°
7. Diagonals are equal in length, bisect each other at 90° , and bisect the angles.
8. All sides and angles are of different measures.
9. Opposite angles are equal, and opposite sides are equal and parallel.
10. Third angle: 36°