Class: 5	Subject: Maths	
Name:		
Class 5 Mathematics Question Pap	per	
# Subject: Shapes and Angles		
# Total Questions: 36		
		
Word Problems:		
1. A rectangle has a length of 12 cm and a	width of 5 cm. What is the perimeter of the rectangle?	
2. If three angles of a quadrilateral are 85°	, 90°, and 75°, what is the measure of the fourth angle?	
3. Sarah drew a triangle with angles measເ angle?	uring 40° and 70°. What is the measure of the third	
4. A square garden has a side length of 8 r	m. How much fencing is needed to surround it?	
5. If a right angle is 90° , what is the measu	re of an angle that is three times that angle?	
6. Tom has 6 triangular pieces of paper, eatriangles does he have?	ach with an interior angle measuring 60°. What type of	
Multiple Choice Questions (MCQs):		
1. What is the sum of the angles in a triang	le?	
a) 180°		
b) 360°		
c) 90°		
d) 270°		
2. How many sides does a hexagon have?		
a) 5		
b) 6		
c) 7		

d) 8	
3. What do you call an angle larger than 90° but less than 180°?	
a) Acute Angle	
b) Right Angle	
c) Obtuse Angle	
d) Straight Angle	
4. Which of the following shapes has all sides equal and all angles equal?	
a) Rectangle	
b) Rhombus	
c) Square	
d) Trapezium	
5. If a triangle has sides measuring 3 cm, 4 cm, and 5 cm, what type of triangle i	s it?
a) Equilateral	
b) Isosceles	
c) Scalene	
d) Right	
6. A circle has a radius of 7 cm. What is its diameter?	
a) 14 cm	
b) 21 cm	
c) 7 cm	
d) 28 cm	
Fill in the Blanks:	
A triangle with all sides of different lengths is called a triangle.	
2. The measure of a straight angle is degrees.	
3. The sum of the interior angles of a quadrilateral is degrees.	
4. A line segment that connects two points on a curve is called a	
5. A triangle with one angle measuring more than 90° is called an t	riangle.

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6. The point where two lines intersect is known as a _____

True or False:

- 1. An acute angle measures more than 90 degrees.
- 2. A rectangle has two pairs of equal sides.
- 3. An equilateral triangle has angles that each measure 60 degrees.
- 4. The perimeter of a square is calculated by adding the lengths of all four sides.
- 5. The symbol for a right angle is a small square.
- 6. A trapezoid has at least one pair of parallel sides.

Match the Following:

Column A	Column B		
1. Circle	A. 360°	1	
2. Triangle	B. 4 sides		
3. Square	C. 180°		
4. Rectangle	D. 4 equal angles		1
5. Quadrilateral	E. 3 sides	- 1	
6. Full angle	F. 2 pairs of equal s	ides	

Story-Based Problems:

- 1. Jamie is making a quilt shaped like a hexagon. If each side of the hexagon is 5 cm long, what will be the total length of the border she needs for the quilt?
- 2. Alex measures an angle using a protractor and finds it is 120°. If he wants a complement angle, what is that angle's measure?
- 3. Mia has a piece of string that is 30 cm long. She wants to cut it into equal lengths to form a square. How long will each side of the square be?
- 4. In a school project, students have to measure the angles of a triangle. If they find two angles measuring 50° and 60°, what is the measure of the third angle?
- 5. If the length of one side of a square is doubled, how does the area change?

6. Carlo has a triangular garden with sides measuring 6 m, 8 m, and 10 m. What type of triangle is he working with?

End of Question Paper

Class: 5 Subject: Maths

Answer Key for Class 5 Mathematics Question Paper - Shapes and Angles

Word Problems:

1. A rectangle has a length of 12 cm and a width of 5 cm. What is the perimeter of the rectangle?

Answer: The formula for the perimeter of a rectangle is:

$$[P = 2(length + width)]$$

 $[P = 2(12 cm + 5 cm) = 2(17 cm) = 34 cm]$
So, the perimeter is 34 cm.

2. If three angles of a quadrilateral are 85°, 90°, and 75°, what is the measure of the fourth angle?

Answer: The sum of the angles in a quadrilateral is 360°.

Let the fourth angle be $\ (x \)$.

Thus.

The measure of the fourth angle is 110°.

3. Sarah drew a triangle with angles measuring 40° and 70° . What is the measure of the third angle?

Answer: The sum of the angles in a triangle is 180°.

Let the third angle be $\(x\)$.

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The measure of the third angle is 70°.

4. A square garden has a side length of 8 m. How much fencing is needed to surround it?

Answer: The formula for the perimeter of a square is:

 $\Gamma = 4 \times side$

 $P = 4 \times 8 m = 32 m$

So, 32 m of fencing is needed.

5. If a right angle is 90°, what is the measure of an angle that is three times that angle?

Answer: If the angle is three times a right angle:

So, the measure of that angle is 270°.

6. Tom has 6 triangular pieces of paper, each with an interior angle measuring 60°. What type of triangles does he have?

Answer: A triangle with all angles measuring 60° is an equilateral triangle. Thus, Tom has equilateral triangles.

Multiple Choice Questions (MCQs):

1. What is the sum of the angles in a triangle?

Answer: a) 180°

2. How many sides does a hexagon have?

Answer: b) 6

3. What do you call an angle larger than 90° but less than 180°?

Answer: c) Obtuse Angle

4. Which of the following shapes has all sides equal and all angles equal?

Answer: c) Square

5. If a triangle has sides measuring 3 cm, 4 cm, and 5 cm, what type of triangle is it?

Answer: d) Right (since $(3^2 + 4^2 = 5^2)$) which follows the Pythagorean theorem)

6. A circle has a radius of 7 cm. What is its diameter?

Answer: a) 14 cm (Diameter = $2 \times \text{Radius}$)

The answer key is generated by testgenie.ai and should be reviewed for precision.

Fill in the Blanks:

- 1. A triangle with all sides of different lengths is called a scalene triangle.
- 2. The measure of a straight angle is 180 degrees.
- 3. The sum of the interior angles of a quadrilateral is 360 degrees.
- 4. A line segment that connects two points on a curve is called a chord.
- 5. A triangle with one angle measuring more than 90° is called an obtuse triangle.
- 6. The point where two lines intersect is known as a vertex/inters.

True or False:

1. An acute angle measures more than 90 degrees.

Answer: False (An acute angle measures less than 90 degrees).

2. A rectangle has two pairs of equal sides.

Answer: True

3. An equilateral triangle has angles that each measure 60 degrees.

Answer: True

4. The perimeter of a square is calculated by adding the lengths of all four sides.

Answer: True

5. The symbol for a right angle is a small square.

Answer: True

6. A trapezoid has at least one pair of parallel sides.

Answer: True

Match the Following:

| Column B | Column A |-----| ---

Story-Based Problems:

1. Jamie is making a quilt shaped like a hexagon. If each side of the hexagon is 5 cm long, what will be the total length of the border she needs for the quilt?

Answer: The perimeter of a hexagon can be calculated as:

 $[P = 6 \times 5 \text{ cm} = 30 \text{ cm}]$

So, she needs 30 cm of border.

2. Alex measures an angle using a protractor and finds it is 120°. If he wants a complement angle, what is that angle's measure?

Answer: Complementary angles sum up to 90°.

Complement angle = 90° - 120° = - 30° (This means there is no complement angle since 120° is greater than 90°).

3. Mia has a piece of string that is 30 cm long. She wants to cut it into equal lengths to form a square. How long will each side of the square be?

Answer: Let the side length be $\ (s \)$. The perimeter is 30 cm:

$$[4s = 30]$$

\[s = 30/4 = 7.5 cm \]

Each side of the square will be 7.5 cm long.

4. In a school project, students have to measure the angles of a triangle. If they find two angles measuring 50° and 60°, what is the measure of the third angle?

Answer: The sum of angles in a triangle is 180°.

Let the third angle be $\ (x \)$.

The answer key is generated by testgenie.ai and should be reviewed for precision.

The measure of the third angle is 70°.

5. If the length of one side of a square is doubled, how does the area change?

Answer: The area of a square is calculated as $\ \ A = side^2 \$.

If the side length is doubled, the new area becomes:

So, the area becomes four times larger.

6. Carlo has a triangular garden with sides measuring 6 m, 8 m, and 10 m. What type of triangle is he working with?

Answer: Since $(6^2 + 8^2 = 36 + 64 = 100 = 10^2)$ follows the Pythagorean theorem, this triangle is a right triangle.

This answer key represents thorough explanations and calculations to ensure clarity and understanding for Class 5 students on the topics of shapes and angles.