



# Year 4 Worksheet 6: Geometry (Angles, Symmetry, Position a

**Level: Beginner**

1. Name a shape with 4 equal sides.
2. Tick the shapes that have right angles.
3. Draw a square and label its sides.
4. Identify the triangle with no equal sides.
5. Circle the shape with 1 line of symmetry.
6. Tick all shapes with more than 4 sides.
7. Match the shape to its name: square, triangle, pentagon.
8. Draw a shape with 2 right angles.
9. What shape has 3 sides and 3 corners?
10. Which shape has all sides the same and no corners?

[Use the space below to work out your answers. Show all your working.]



# Year 4 Worksheet 6: Geometry (Angles, Symmetry, Position a

## Level: Intermediate

1. Draw and label a rectangle. Mark all right angles.
2. How many lines of symmetry does a regular hexagon have?
3. Identify all shapes that have obtuse angles.
4. What is the difference between a square and a rectangle?
5. Draw a triangle with one right angle.
6. What angle is smaller than a right angle?
7. Tick all shapes with parallel lines.
8. Describe the position of a square in quadrant I.
9. Draw a shape that has both acute and obtuse angles.
10. Identify horizontal and vertical lines in a diagram.

[Use the space below to work out your answers. Show all your working.]



# Year 4 Worksheet 6: Geometry (Angles, Symmetry, Position a

**Level: Difficult**

1. A shape has 5 equal sides. Name it.
2. Draw and label an equilateral triangle.
3. Tick the shapes that have rotational symmetry.
4. How many right angles does an octagon have?
5. Match these terms: acute, obtuse, right angle to examples.
6. A shape has 2 lines of symmetry and 4 sides. What is it?
7. Identify all perpendicular lines in the diagram.
8. Plot and label these points: (2,3), (4,1), (3,5)
9. Translate a triangle 3 units right and 2 units down.
10. Which shape has exactly 1 pair of parallel sides?

[Use the space below to work out your answers. Show all your working.]



# Year 4 Worksheet 6: Geometry (Angles, Symmetry, Position a

## Level: Super Challenging

1. Draw a shape with no lines of symmetry.
2. Explain how to identify perpendicular and parallel lines.
3. What is the difference between rotational and reflective symmetry?
4. Create a pattern using rotation and translation.
5. Identify and describe a shape with 6 equal angles.
6. Mark acute, obtuse, and right angles in a given polygon.
7. Write a riddle: I have 3 sides and one angle less than  $90^\circ$ . What am I?
8. Plot a rectangle on a coordinate grid and reflect it in the y-axis.
9. Draw a figure with exactly 2 lines of symmetry and 2 right angles.
10. Describe the position of a triangle after a translation.

[Use the space below to work out your answers. Show all your working.]