



Year 5 Worksheet 6: Geometry (Angles, Shapes, Position and

Level: Beginner

1. Name 3 types of angles.
2. Draw an acute angle.
3. Draw a right angle.
4. How many sides does a hexagon have?
5. What is a quadrilateral?
6. Name a 3D shape with a circular face.
7. Draw a square and label its right angles.
8. Tick the shape with all equal sides.
9. Identify parallel lines in the shape.
10. How many lines of symmetry does a rectangle have?

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



Year 5 Worksheet 6: Geometry (Angles, Shapes, Position and

Level: Intermediate

1. Estimate the size of this angle: (draw angle if space allows)
2. Identify the obtuse angle in the diagram.
3. Classify triangle types: equilateral, isosceles, scalene.
4. Draw a pentagon and label its sides.
5. What is the sum of angles in a triangle?
6. Name 3D shapes with vertices and edges.
7. Draw a cube and mark its edges.
8. Describe the translation of a shape moved 2 right, 3 up.
9. Reflect a shape in the y-axis.
10. Name a shape with no lines of symmetry.

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



Year 5 Worksheet 6: Geometry (Angles, Shapes, Position and

Level: Difficult

1. Measure and label an angle of 65° .
2. How many degrees in a straight line?
3. A shape has 4 sides, 2 equal. Name it.
4. Draw and label an irregular hexagon.
5. Identify perpendicular lines in a diagram.
6. Draw a shape with 1 line of symmetry.
7. Use a protractor to draw 110° .
8. A triangle has angles 45° and 75° . Find the third angle.
9. Rotate a shape 90° clockwise around the origin.
10. Translate a square from (2,3) to (5,6).

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



Year 5 Worksheet 6: Geometry (Angles, Shapes, Position and

Level: Super Challenging

1. Write a riddle for a shape with 2 pairs of equal sides and 4 right angles.
2. Design a symmetrical pattern using only triangles.
3. Calculate the missing angle: $130^\circ + \text{___} = 180^\circ$
4. Reflect a triangle in both x and y axis.
5. Measure angles in a polygon with 6 sides.
6. Explain the difference between rotation and reflection.
7. Create a shape with exactly 1 line of symmetry and draw it.
8. Mark all acute angles in a polygon.
9. Classify 3D shapes: cube, cuboid, cylinder, sphere.
10. Predict what happens when a shape is rotated 360° .

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