

5.1 Angle properties of triangles and quadrilaterals

- Derive and use the sum of angles in a triangle and in a quadrilateral.
- Derive and use the fact that the exterior angle of a triangle is equal to the sum of the two opposite interior angles.

5.2 Interior angles of a polygon

- Calculate the sum of the interior angles of a polygon.
- Use the interior angles of polygons to solve problems.
- Use x for the unknown to help you solve problems.

5.3 Exterior angles of a polygon

- Know the sum of the exterior angles of a polygon.
- Use the angles of polygons to solve problems.

5.4 Pythagoras' theorem 1

- Calculate the length of the hypotenuse in a right-angled triangle.
- Solve problems using Pythagoras' theorem.

5.5 Pythagoras' theorem 2

- Calculate the length of a shorter side in a right-angled triangle.
- Solve problems using Pythagoras' theorem.

5.6 Trigonometry 1

- Use trigonometric ratios to find lengths in a right-angled triangle.
- Use trigonometric ratios to solve problems.
- Find angles of elevation and angles of depression.

5.7 Trigonometry 2

- Use trigonometric ratios to calculate an angle in a right-angled triangle.
- Use trigonometric ratios to solve problems.
- Know the exact values of the sine, cosine and tangent of some angles.