

Year 5 Calculating Angles Around a Point – Guidance for Parents/Carers

Activity:

The aim of this activity is for children to practise calculating angles around a point. There are three questions to complete. The first two questions allow children to practise the skill, while the third question extends them as they have to problem solve and explain their answer.

Vocabulary:

A **clockwise turn** is the motion of moving in the same direction of a clock, therefore the right.

An **anti-clockwise turn** is the motion of moving in the opposite direction of a clock, therefore the left.

An **angle** is when two edges of a shape meet or intersect. It shows the amount of turn between two lines.

Angles are measured in **degrees**.

A **quarter turn** is when a line turns around 90° through a quarter of a circle. This is also known as a right angle.

A **three-quarter turn** is when a line turns three quarters of the way around a circle.

A **full turn** is when a line turns around 360° in a complete circle.

Supporting resources:

You can watch a video tutorial about calculating angles around a point on [<u>kids.classroomsecrets.co.uk</u>](https://kids.classroomsecrets.co.uk) >> **Year 5 >> Maths >> Properties of Shape >> Video Tutorials.**

Other resources:

If your child enjoyed this activity and wants to try more activities linked to this learning, you can sign up for £4.83 per month on [<u>classroomsecrets.co.uk/membership</u>](https://classroomsecrets.co.uk/membership).

Check out our daily timetable for Year 5 home learning activities on [<u>kids.classroomsecrets.co.uk</u>](https://kids.classroomsecrets.co.uk) >> Home Learning Timetable.

Calculating Angles Around a Point

1. 90° – 1 right angle – quarter turn
 180° – 2 right angles – half turn
 270° – 3 right angles – three quarter turn
 360° – 4 right angles – full turn

2. False, the missing angle is 46° .

$$134 + 90 + 90 = 314^\circ$$

$$360 - 314 = 46^\circ$$

3. Various answers, for example: If I follow Jakub's directions, I finish at 125° . In order to reach the finish, the final turn should be 160° , not 115° .