

Pie charts – first encounter

MODULE 7 · DATA, CHANCE AND THE CO-ORDINATE PLANE

SHAPE & SPACE

HOW TO ANSWER TODAY

- **Pie chart.** A full circle = 360° . A segment's angle $\div 360^\circ$ gives its fraction; multiply by 360° to go the other way.

$$90^\circ \div 360^\circ = 1/4 \cdot 3/5 \text{ of } 360^\circ = 216^\circ$$

★ STRETCH PROBLEMS

- 1 Cian draws a pie chart on the classroom working wall showing the weather over a fortnight. The sunny segment measures 78° and the cloudy segment measures 146° , with rainy days making up the rest of the circle. What is the angle of the rainy segment, remembering that the whole circle is 360° ?

A pie chart has three segments. One segment is 78° and another is 146° . What is the angle of the third segment (remember the whole circle is 360°)?

- 2 Mr Ó Briain pinned this week's daily-question results on the noticeboard as a pie chart. $3/5$ of the pupils in 5th class chose 'hurling' as their favourite PE activity. The full pie chart shows 360° in total. What angle covers the hurling segment?

In a pie chart of class survey results, $3/5$ of pupils chose option A. What angle does that segment cover, out of 360° in total?

- 3 Ms. Ní Bhriain's 5th class made a pie chart of the books they read during the October reading challenge. The segment for fiction books covers $3/5$ of the pie chart. What angle does that segment cover, out of 360° in total?

In a pie chart of class survey results, $3/5$ of pupils chose option A. What angle does that segment cover, out of 360° in total?