# Angles in Circles C

### Prior knowledge:

Terminology: vertex/vertices, angle, circle, radius, diameter, perpendicular, circumference, chord, segment, arc

To describe angles using three vertices.

To spot and use isosceles triangles within circles.

### Check:

**B**

**A**

**C**

**O**

Describe the angles in this picture

Red

Yellow

Blue

Green

Purple

**B**

**A**

**C**

**O**

What type of triangle is OAB and how do you know?

What about triangle ABC?

Name another isosceles triangle and explain how you know it is isosceles.

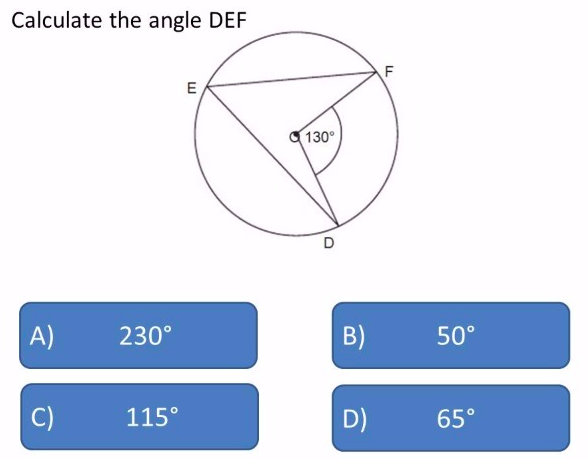
### Prior Knowledge:

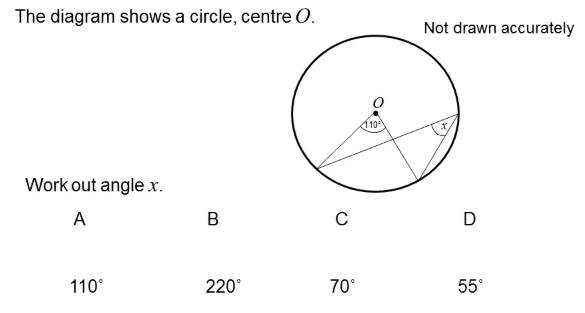
To use angle rules within circles and explain your reasoning

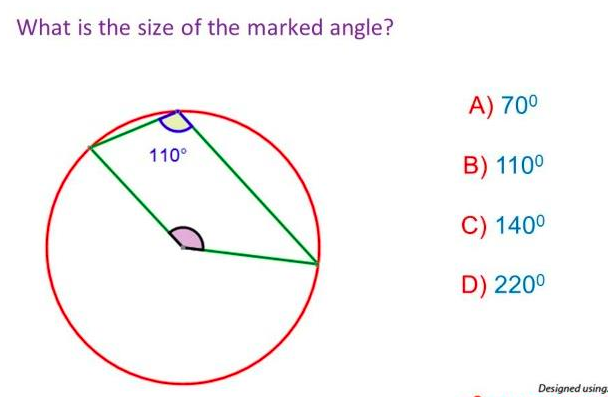
To develop a new rule involving angles in circles

### Activities:

Angles in Circles B







Those with prior knowledge: discovery task to develop a new rule involving circles (next page)

Others: small group lesson with additional example – problem pairs.

### Aims (if prior knowledge secure):

To create a new rule involving angles in circles

### Activities:

### Worksheet – Angles in Circles C intro

### Aims:

To know and recognise three rules for angles in circles

### Activities:

Class note about the new rule, with the formal name.

Geogebra demonstration of how the rule can change in appearance.

Recap of the other rules on geogebra.

Angles in Circles SNAP

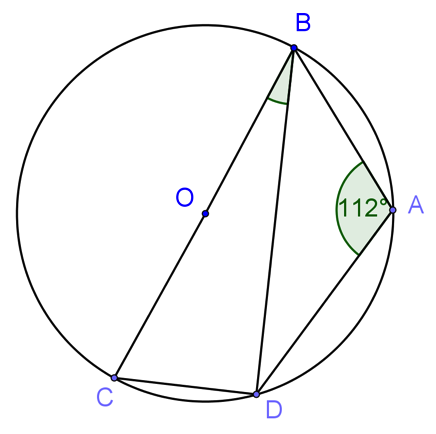
Snap when you see two consecutive cards which display the same rule.

### Aims:

To apply these rules to find angles in circles

### Activities:

Example:



Practice:

Worksheet: Angles in Circles C – Practice

DFM Angles in Circles C

**Assessment:**

Diagnostic questions quiz: Angles in Circles C