

Solutions

2.1 Half the central angle is 50° .

2.2 Half of 180° is 90° .

2.3 Opposite angles sum to 180° : $180-112=68^\circ$.

3.1 False. A diameter subtends 90° , while a chord subtending 60° at the centre subtends 30° at the circumference on the other arc. Equal angles require the same chord and segment.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.