

Solutions

2.1 $(120/360) \times 2 \times 6 = 4$.

2.2 $(120/360) \times 6^2 = 12$.

2.3 $9/36$ of a turn: $360 \times 1/4 = 90^\circ$.

3.1 False. A radius-6 sector with angle 120° has arc length 4π . Its perimeter adds two radii and is $4\pi + 12$.

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