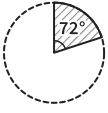
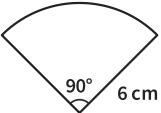
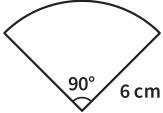
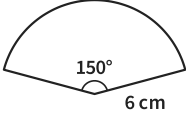
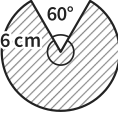
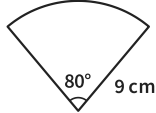
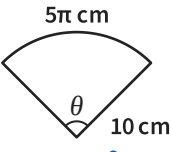
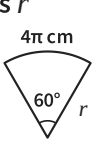
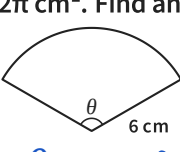
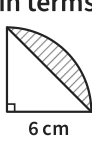
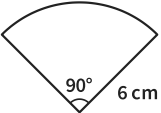
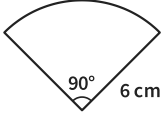
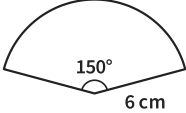
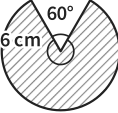
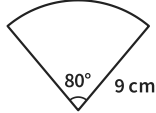
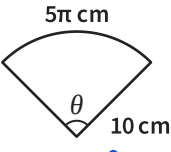
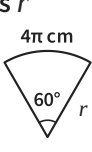
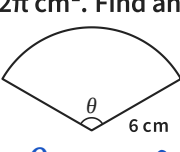
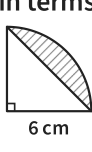


a What fraction of the circle is shaded?  $\frac{1}{5}$ the angle as a fraction of 360°	b Find the arc length in terms of π  $3\pi \text{ cm}$ arc length of a quarter circle	c Find the arc length in terms of π  $8\pi \text{ cm}$ arc length: not a unit fraction	d Find the arc length of a 36° sector of a circle of diameter 20 cm, in terms of π $2\pi \text{ cm}$ arc length from the diameter
e Find the area in terms of π  $9\pi \text{ cm}^2$ area of a quarter circle	f Find the area in terms of π  $15\pi \text{ cm}^2$ sector area with any angle	g Find the shaded area in terms of π  $30\pi \text{ cm}^2$ the major sector (360° take away)	h Find the exact perimeter  $4\pi + 18 \text{ cm}$ perimeter of a sector: two radii
i Find angle θ  90° an angle from the arc length	j Find the radius r  12 cm a radius from the arc length	k The area is $12\pi \text{ cm}^2$. Find angle θ  $\theta = 120^\circ$ an angle from the sector area	l Find the shaded area in terms of π  $9\pi - 18 \text{ cm}^2$ area of a segment

The Maths Habit

a What fraction of the circle is shaded?  $\frac{1}{5}$ the angle as a fraction of 360°	b Find the arc length in terms of π  $3\pi \text{ cm}$ arc length of a quarter circle	c Find the arc length in terms of π  $8\pi \text{ cm}$ arc length: not a unit fraction	d Find the arc length of a 36° sector of a circle of diameter 20 cm, in terms of π $2\pi \text{ cm}$ arc length from the diameter
e Find the area in terms of π  $9\pi \text{ cm}^2$ area of a quarter circle	f Find the area in terms of π  $15\pi \text{ cm}^2$ sector area with any angle	g Find the shaded area in terms of π  $30\pi \text{ cm}^2$ the major sector (360° take away)	h Find the exact perimeter  $4\pi + 18 \text{ cm}$ perimeter of a sector: two radii
i Find angle θ  90° an angle from the arc length	j Find the radius r  12 cm a radius from the arc length	k The area is $12\pi \text{ cm}^2$. Find angle θ  $\theta = 120^\circ$ an angle from the sector area	l Find the shaded area in terms of π  $9\pi - 18 \text{ cm}^2$ area of a segment

The Maths Habit