Name

Date



AREA OF A SECTOR SHEET 1

Use the radius and angle measurement to find the area of these sectors. Give your answers to 1 decimal place.





Name

Date



AREA OF A SECTOR SHEET 1 ANSWERS

Use the radius and angle measurement to find the area of these sectors. Give your answers to 1 decimal place.

		WORKING OUT	AREA
1)	10 cm	Area = (65/360) · π · 10 ² = 65/360 · π · 100 = (325/18) π = 56.7 to 1 decimal place	56.7 cm ² to 1 decimal place
2)	7 in 124°	Area = $(124/360) \cdot \pi \cdot 7^2 = 124/360 \cdot \pi \cdot 49$ = $(1519/90) \pi$ = 53.0 to 1 decimal place	53.0 in ² to 1 decimal place
3)	3 ^{1/2} 162°	Area = $(162/360) \cdot \pi \cdot (3 \frac{1}{2})^2 = 162/360 \cdot \pi \cdot (49/4)$ = $(441/80) \pi$ = 17.3 to 1 decimal place	17.3 ft ² to 1 decimal place
4)	52° 1.8 m	Area = $(52/360) \cdot \pi \cdot (1.8)^2 = (52/360) \cdot \pi \cdot (3.24)$ = 0.468 π = 1.5 to 2dp	1.5 m ² to 1 decimal place
5)	104° 5 ¼ in	Area = $(104/360) \cdot \pi \cdot (5 \frac{1}{4})^2$ = $(104/360) \cdot \pi \cdot (441/16) = (637/80) \pi$ = 25.0 to 2dp	25.0 in ² to 1 decimal place
6)	72 cm	Area = $(34/360) \times \pi \times (72)^2 = (34/360) \times \pi \times (5184)$ = $(2448/5) \pi$ = 1538.1 to 2dp	1538.1 cm ² to 1 decimal place

