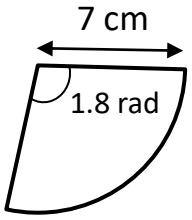
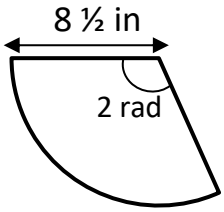
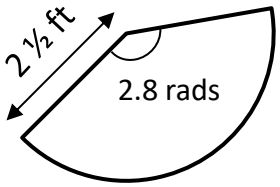
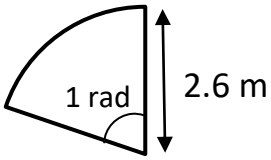
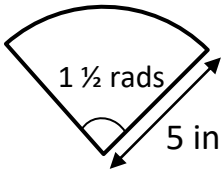
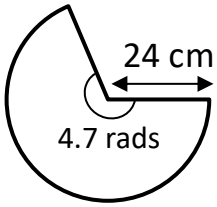
Name Date

AREA OF A SECTOR SHEET 3 (RADIANS)

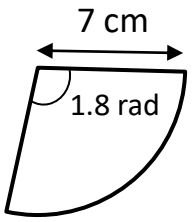
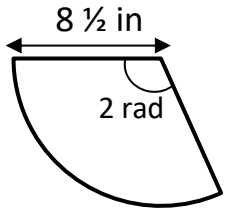
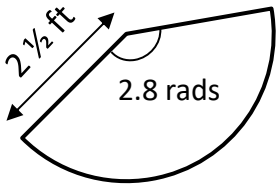
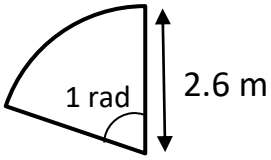
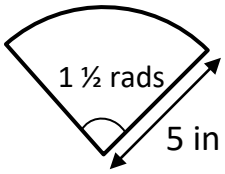
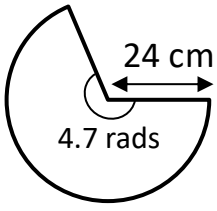
Use the radius and angle measurement in radians to find the area of these sectors.

		WORKING OUT	AREA
1)			
2)			
3)			
4)			
5)			
6)			

Name Date

AREA OF A SECTOR SHEET 3 (RADIANS) ANSWERS

Use the radius and angle measurement to find the area of these sectors.

		WORKING OUT	AREA
1)		Area = $(1.8/2) \cdot 7^2 = 0.9 \cdot 49$ $= 44.1\ cm^2$	$44.1\ cm^2$
2)		Area = $(2/2) \cdot (8\ ½)^2 = 1 \cdot (289/4) = 289/4$ $= 72.25\ in^2$	$72.25\ in^2$
3)		Area = $(2.8/2) \cdot (2\ ½)^2 = 1.4 \cdot (25/4) = 35/4$ $= 8.75\ ft^2$	$8.75\ ft^2$
4)		Area = $(1/2) \cdot (2.6)^2 = ½ \cdot 6.76$ $= 3.38\ m^2$	$3.38\ m^2$
5)		Area = $(1\ ½/2) \cdot 5^2 = ¾ \cdot 25 = 75/4$ $= 18.75\ in^2$	$18.75\ in^2$
6)		Area = $(4.7/2) \cdot 24^2 = 2.35 \cdot 576$ $= 1353.6\ cm^2$	$1353.6\ cm^2$