Name Date



SURFACE AREA OF A SPHERE SHEET 1

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

	SPHERE	WORKING OUT	AREA
1)	21 cm		
2)	STATE OF THE PARTY		
3)	0.9 m		
4)	9.6 cm		
5)	T. Talin		

Name Date



SURFACE AREA OF A SPHERE SHEET 1 ANSWERS

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

	SPHERE	WORKING OUT	AREA
1)	21 cm	Surface area of a sphere = $4\pi r^2$ = $4 \times \pi \times (21)^2 = 4 \times \pi \times 441 = 1764 \pi$ = 5541.8 cm^2 to 1 decimal place	5541.8 cm ²
2)	SP TR	Surface area of a sphere = $4\pi r^2$ = $4 \times \pi \times (3 \%)^2 = 4 \times \pi \times (49/4) = 49 \pi$ = 153.9 ft ² to 1 decimal place	153.9 ft²
3)	0.9 m	Surface area of a sphere = $4\pi r^2$ = $4 \times \pi \times (0.9)^2 = 4 \times \pi \times (0.81) = 3.24 \pi$ = 10.2 m^2 to 1 decimal place	10.2 m ²
4)	9.6 cm	Surface area of a sphere = $4\pi r^2$ = $4 \times \pi \times (9.6)^2 = 4 \times \pi \times (92.16) = 368.64 \pi$ = 1158.1 cm ² to 1 decimal place	1158.1 cm ²
5)	TANK IN	Surface area of a sphere = $4\pi r^2$ = $4 \times \pi \times (12 \%)^2 = 4 \times \pi \times (625/4) = 625 \pi$ = $1963.5 \text{ in}^2 \text{ to 1 decimal place}$	1963.5 in ²

