stsize Cans	6					Ru	bric
						points	section points
Shows correct r	reasoning an	d calculatio	ons such as:				
The volume of	the can is πι	$r^2h = 200$					
The surface are	a of the can	is $A = 2\pi r^2$	$+2\pi rh$			1	
Substitutes for h				1			
$A = 2\pi r^2 + 2\pi r^2 200/\pi r^2 = 2\pi r^2 + 400/r$				2			
May try differen	nt values of	r					
May draw a gra	ph or calcul	late.					
May state that r	=1 is not a	sensible va	lue for the r	adius of the	can.		
Values of r	2	3	4	5		2	
Values of A	224.9	190.4	201.1	235.6			
From these values it appears that the minimum surface area is when the radius is about 3 cm and the height is about 7 cm.				1 1			
May try further	values of r	such as:		1	1		
Values of r	2.5	3	3.5	3.2	-		
Values of A	199.5	190.4	191.3	189.0			
May summarize has approximate					surface area	2	
					Total Points		10 10