Temple Geometry		Rubric	
		Points	Section points
1.	OF = radius of large circle = 2r. FD = p, so OD is 2r - p	2	
			2
2.	$OB^2 = DO^2 - DB^2$		
	$= \left(2r - p\right)^2 - p^2$	2	
	$=4r^2-4pr$		
	Partial credit for some correct work	(1)	2
3.	AO = r and $EO = p$, so AE is $r - p$	1	
			1
4.	$ED^2 = DA^2 - AE^2$		
	$= (r+p)^2 - (r-p)^2$	2	
	=4 pr		
	Partial credit for some correct work	(1)	2
5.	Since $OB^2 = ED^2$,		
	$4r^2 - 4pr = 4pr$		
	$\therefore 4r^2 = 8pr$	2	
	$\therefore r = 2p$		2
6.	Shows that the Shaded area = $4\pi r^2 - 2\pi r^2 - 4\pi (r/2)^2 = \pi r^2$	1	1
	Total Points		10