8	$\cos 50 = \frac{18}{(AB)}$ or $\sin 40 = \frac{18}{(AB)}$ or $\frac{(AB)}{\sin 90} = \frac{18}{\sin 40}$		5	M1	M2 for $(AB =)\sqrt{18^2 + (18\tan 50)^2}$ oe (= 28.0030…) or 28
	$(AB =)\frac{18}{\cos 50}(= 28.0030...)$ oe or 28 or $(AB =)\frac{18}{\sin 40}(= 28.0030...)$ oe or 28			M1	
	$\frac{1}{2}\times\pi\times"28.0030..."(= 43.9...)$ oe or 44 $\pi\times"28.0030..."(= 87.9...)$ oe or 88			M1 for use of πd or $\frac{1}{2}\pi d$ oe Allow any value of $AB > 18$ if M2 not scored	
	"28…" + "43.9…" (= 71.9900…) or "28" + "44"			M1ft from previous M1 Allow *their d* + *their* $\frac{1}{2}\pi d$	
	Correct answer scores full marks (unless from obvious incorrect working)	72		A1 awrt 72	
				Total 5 marks	

9	(a)		0.000 625	1	B1
	(b)	25 000 000 oe e.g. 25×10^6 or 0.25×10^8 **or** 2.5×10^n $n \neq 7$		2	M1
		Correct answer scores full marks (unless from obvious incorrect working)	2.5×10^7		A1
					Total 3 marks