8	$22 \times 260\ (= 5720)$ or $50 \times 218\ (= 10\,900)$		3	M1
	$\frac{'10900' - '5720'}{28}\ \left(= \frac{5180}{28}\right)$			M1
		185		A1
				Total 3 marks

9	$\cos 30 = \frac{24}{(AC)}$ or $\sin'60' = \frac{24}{(AC)}$ **or** $\frac{\sin'60'}{24} = \frac{\sin 90}{(AC)}$ oe		5	M1 for correct trig ratio involving *AC*	M2 for use of tan **and** Pythagoras to obtain *AC* $(AB =)\ 24\tan 30\ (=13.856...)$ **and** $\sqrt{'13.856...'^2 + 24^2}\ (= 27.712...)$ If not M2, then M1 for use of tan and Pythagoras to obtain AC^2 $(AB =)\ 24\tan 30\ (=13.856...)$ **and** $'13.856...'^2 + 24^2\ (= 768)$
	$(AC =)\ \frac{24}{\cos 30}\ (= 16\sqrt{3} = 27.712\ldots)$ or $(AC =)\ \frac{24}{\sin'60'}\ (= 16\sqrt{3} = 27.712\ldots)$ **or** $(AC =)\ \frac{24\times\sin 90}{\sin'60'}$			M1 for a correct trig ratio for *AC*	
	$\frac{1}{2}\times 2\times\pi\times 3\ (= 3\pi = 9.424\ldots)$			M1 for using $\pi\times 2\times 3$ or $2\pi\times 3$	
	'27.712…' + '9.424…' – 2×3			M1 for a complete method to find the length *AFEDC*	
		31		A1 accept answers in range from 31 to 31.15	
					Total 5 marks