10	$7^2-(10\div 2)^2\,(=24)$ or $\dfrac{\sin\left(\frac{1}{2}x\right)}{5}=\dfrac{\sin 90}{7}$ oe or $\cos x=\dfrac{7^2+7^2-10^2}{2\times 7\times 7}$ oe or $\sin\left(\frac{1}{2}x\right)=\dfrac{5}{7}$ oe or $\cos y=\dfrac{5}{7}$ oe		5	M1 or use of sine rule or cosine rule to find angle (x) of the apex or angle y $\left(=90-\frac{1}{2}x\right)$
	$\sqrt{7^2-(10\div 2)^2}$ $(=\sqrt{24}=2\sqrt{6}=4.898...)$ or $(x=)\,2\times\sin^{-1}\left(\dfrac{5\times\sin 90}{7}\right)(=91.169\ldots)$ oe or $(x=)\,2\times\sin^{-1}\left(\dfrac{5}{7}\right)(=91.169\ldots)$ oe or $(x=)\cos^{-1}\left(\dfrac{7^2+7^2-10^2}{2\times 7\times 7}\right)(=91.169\ldots)$ oe or $(x=)\,2\left(90-\cos^{-1}\left(\dfrac{5}{7}\right)\right)\left(=2(90-44.415)...=91.169...\right)$ Allow 5 from correct working			M1 for complete method to find height of triangle or the angle (x) of the apex $\cos^{-1}\left(\frac{5}{7}\right)(=44.415...)$ **and** $5\times\tan'44.415...'(=4.898...)$ or $7\times\sin'44.415...'(=4.898...)$ **or** $\sin^{-1}\left(\frac{5}{7}\right)(=45.584...)$ **and** $\dfrac{5}{\tan'45.584...'}(=4.898...)$ or $7\times\cos'45.584...'(=4.898...)$
	E.g. $6\times 10+\dfrac{(10\div 2)\times'\sqrt{24}'}{2}\times 2$ $(=60+10\sqrt{6}=84.494...)$ **or** $5\times\left(6+6+'\sqrt{24}'\right)(=60+10\sqrt{6}=84.494...)$ **or** $\left(\frac{1}{2}\times 7\times 7\times\sin'91.169...'+10\times 6\right)(=60+10\sqrt{6}=84.494...)$			M1 for method to find the total area of the pentagon allow answers in the range 84.49 – 85
	E.g. '84.494' ÷ 16 (= 5.28...) or $\left(60+10\sqrt{6}\right)\div 16\,(=5.28...)$			M1 for method to find the number of tins required using their area
		6		A1 dep on at least M2
				Total 5 marks