	Question		Answer	Marks	AO	Guidance
3			take reciprocal calculate cube calculate square root to obtain $m = 343, n = 512$ **isw** or $\frac{343}{512}$ **isw**	**B1** **B1** **B1**		operations may be in any order, but 3 **distinct numerical** steps required for 3 marks if taking **reciprocal** and **one** other step are combined into one step, allow **B1B1B0** if **B0B0** for cubing and square rooting, allow **SC1** for $\left(\sqrt{\frac{49}{64}}\right)^3 = \frac{343}{512}$ or $\left(\sqrt{\frac{64}{49}}\right)^3 = \frac{512}{343}$ seen
				[3]		
		eg	$\left(\frac{49}{64}\right)^{\frac{3}{2}}$	**B1**	**1.1**	taking reciprocal; may be awarded after simplification
			$\left(\frac{7}{8}\right)^3$	**B1**	**1.1**	square roots found; may be seen before taking reciprocal
			$\frac{343}{512}$ **isw**	**B1**	**1.1**	dependent on award of both preceding marks
				[3]		
		eg	*Alternatively* $\left(\frac{64}{49}\right)^{-3} = \left(\frac{m}{n}\right)^2$ $\left(\frac{49}{64}\right)^3 = \left(\frac{m}{n}\right)^2$ $117649 = m^2$ and $262144 = n^2$ $m= 343$ and $n = 512$	 **B1** **B1** **B1**		 dependent on award of both preceding marks