Questi	on Scheme	Marks	AOs
10	Attempts $S_{\infty} = \frac{8}{7} \times S_6 \Longrightarrow \frac{a}{1-r} = \frac{8}{7} \times \frac{a(1-r^6)}{1-r}$	M1	2.1
	$\Rightarrow 1 = \frac{8}{7} \times (1 - r^6)$	M1	2.1
	$\Rightarrow r^6 = \frac{1}{8} \Rightarrow r = \dots$	M1	1.1b
	$\Rightarrow r = \pm \frac{1}{\sqrt{2}}  (\text{so } k = 2)$	A1	1.1b
(4 marks)			
Notes:			
M1: Substitutes the correct formulae for $S_{\infty}$ and $S_{6}$ into the given equation $S_{\infty} = \frac{8}{7} \times S_{6}$			
M1:	: Proceeds to an equation just in $r$		
M1:	olves using a correct method		
<b>A1:</b>	1: Proceeds to $r = \pm \frac{1}{\sqrt{2}}$ giving $k = 2$		

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