Question number	Scheme	Marks
1 (i)/(ii)	$ar^2 = a + 9d = 48$ or $a + 9d = 4ar$	B1
	$\frac{4ar}{ar^2} = 1$	M1
	$\frac{4}{r} = 1$	M1
	$r = 4 \quad a = 3 \quad d = 5$	A1 A1 A1
		[6]
	Alternative method	
	$a_1 + 9d = t_1 r^2$ or $a_1 + 9d = 4t_1 r$	B1
	$r^2 = 4r$	M1
	$r = 4$	A1
	$t_1 r = 12 \quad$ So $t_1 = a_1 = 3$	A1
	$a_1 r + 9dr = 48r \Leftrightarrow 12 + 36d = 192 \Leftrightarrow 36d = 180$	M1
	$d = 5$	A1
		[6]

	Notes
B1	For either $ar^2 = a + 9d = 48$ or $a + 9d = 4ar$ oe
M1	For solving simultaneously
M1	For simplifying to $\frac{4}{r} = 1$ oe
A1	$r = 4$
A1	$a = 3$
A1	$d = 5$
	Alternative
B1	For either $a_1 + 9d = t_1 r^2$ or $a_1 + 9d = 4t_1 r$ oe
M1	For solving simultaneously
A1	$r = 4$
A1	$a = 3$
M1	For $a_1 r + 9dr = 48r \Leftrightarrow 12 + 36d = 192 \Leftrightarrow 36d = 180$
A1	$d = 5$