

Question	Answer	Marks	Guidance
	$ar^2 = a + d$	B1	
	$ar^4 = a + 5d$	B1	
	$a^2r^4 = a(a + 5d)$ leading to $a^2 + 5ad = (a + d)^2$	*M1	Eliminating r or complete elimination of a and d .
	$[3ad - d^2 = 0 \text{ leading to}] d = 3a \text{ OR } [r = 2 \text{ leading to}] d = 3a$	A1	
	$S_{20} = \frac{20}{2}[2a + 19 \times 3a]$	DM1	Use of formula with <i>their</i> d in terms of a .
	$590a$	A1	
		6	