

Question		Answer	Marks	AO	Guidance	
3	(a)	$x = ky^2\sqrt{z}$ $30 = k \times 4 \times 3$ $k = 2.5$	M1	3.1a	Attempt to find value for k	From $x = ky^2\sqrt{z}$ or $x = kz^2\sqrt{y}$ only Using sum, not product, is M0 but watch for $+\sqrt{z}$ being used for positive square root
		$x = 2.5y^2\sqrt{z}$	A1	1.1	Correct equation	Ignore modulus sign if used around \sqrt{z} Allow BOD if initial equation stated explicitly, k found correctly but then final equation not seen or seen as now incorrect
	(b)	$x = 2.5 \times 9 \times 5$ $x = 112.5$	M1	1.1	Attempt to find x , from equation in terms of y, z and numerical k	Could be from using direct proportion and not their equation from (a)
			A1	1.1	Obtain 112.5	Or any exact equiv
			[2]			