Question		Working		Answer	Mark	Notes		
19	(a)	$M = kp^2$ oe eg $k = \frac{M}{p^2}$	$hM = p^2$ oe eg $h = \frac{p^2}{M}$		3	M1	NB $M = p^2$ or $M \propto p^2$ on its own is not enough to score M1 Constant of proportionality must be a symbol such as k	M2 for $2 = k \times 5^2$ oe **or** $2h = 5^2$ oe
		$2 = k \times 5^2$ oe **or** $k = \frac{2}{25}$ oe	$2h = 5^2$ oe **or** $h = \frac{25}{2}$ oe			M1	For correct substitution of M and p into a correct formula Allow use of $\propto$ in place of = for M marks	
		Correct answer scores full marks (unless from obvious incorrect working)		$M = \frac{2p^2}{25}$		A1	oe but must be $M =$ eg $M = 0.08p^2$ award 3 marks if answer is $M = kp^2$ on the answer line and $k = \frac{2}{25}$ oe is clearly seen in the body of the script	
	(b)			18	1	B1	ft for their value of k if $M = kp^2$ $k \neq 1$	
								Total 4 marks