17	(a)	$F = \frac{k}{r^2}$ or $kF = \frac{1}{r^2}$		3	M1	(NB. Not for $F = \frac{1}{r^2}$) Constant of proportionality must be a symbol such as k	M2 for $36 = \frac{k}{4^2}$ oe
		$36 = \frac{k}{4^2}$ oe **or** $k = 36 \times 4^2$ **or** $k = 576$			M1	for substitution of F and r into a correct formula	
		Correct answer scores full marks (unless from obvious incorrect working)	$F = \frac{576}{r^2}$		A1	oe e.g $F = 576(\times)\frac{1}{r^2}$ Award 3 marks if answer is $F = \frac{k}{r^2}$ on the answer line and $k = 576$ clearly given in the body of working of the script	
	(b)		0.25	1	A1ft	oe dep on M1 in part (a) and for their value of k if $F = \frac{k}{r^2}$	
							Total 4 marks