

Question	Scheme	Marks	AOs
1(a)			
	Shape	B1	1.1b
	Figures: V, 16, 18, 5, 20, 25	B1	1.1b
		(2)	
(b)	Complete method to find the value of V	M1	3.4
	$\left(\frac{1}{2}(18+V)\times 5\right)+15V+\left(\frac{1}{2}(V+16)\times 5\right)=325$	A1	1.1b
		A1	1.1b
	$V=12$	A1	1.1b
		(4)	
(c)	$\frac{18-12}{5}$	M1	3.1b
	$1.2\text{ (m s}^{-2}\text{)}$	A1	1.1b
		(2)	

(8 marks)

Notes:			
(a)	B1	Overall shape	
	B1	Figures marked clearly (allow delineators where appropriate)	
(b)	M1	Total area = 325 oe to produce an equation in V only (must have correct number of sections with appropriate number of $\frac{1}{2}$'s)	
	A1	Correct equation with at most one error	
	A1	Correct equation	
	A1	cao	
(c)	M1	Correct method (allow subtraction reversed) using their V	
	A1	cao (must be positive)	