Q N	Marking instructions	AO	Marks	Typical solution
s	Uses gradient for $0 \le t < 4$ to show given acceleration value. AG	1.1b	B1	$a = \frac{104}{4} = 3.5$
	Subtotal		1	
O Marking instructions			Maylea	Typical calution
Q	Marking instructions	AO	Marks	Typical solution
\ \frac{1}{2} \	Selects a suitable method for calculating the displacement by working out an appropriate area. Or Uses a constant acceleration equation and substitutes appropriate values. Obtains a displacement of 12 when $t = 4$ or Obtains a displacement of $\frac{-16}{7}$ when $t = \frac{8}{7}$ Allow area of triangle = $\frac{16}{7}$	3.1a	M1	100 = 16 + 7 <i>s</i>
	or /			s = 12 m
fi c fi	Obtains a displacement of $\frac{100}{7}$ from $t = \frac{8}{7}$ to $t = 4$ or Obtains a displacement of $\frac{450}{7}$ from $t = \frac{8}{7}$ to $t = 9$	2.4	D4	Since displacement = area When $t = 9$ $s = 12 + (9 - 4)10 = 62 \text{ m}$
v s c a	Completes reasoned argument with fully correct working to show the given displacement. Do not award if decimal values are repeatedly used throughout to only one decimal place.	2.1	R1	
	Subtotal		3	
	Question 15 Total		4	