

10	(a)		$\text{Mass} = 23.56 \times 1.816^2$ $= 77.7 \text{ [kg]}$	M1 A1 [2]	1.1 1.1 	Allow M1 for cm used here CAO	
10	(b)		Positive [correlation]	B1 [1]	1.1 	Ignore, eg, weak or strong	Accept 'as age increases so does BMI' oe
10	(c)		$28 \leq \text{BMI} < 30$	B1 [1]	3.4 		
10	(d)		extrapolation	B1 [1]	3.5b 	Or equivalent	

Question			Answer	Marks	AOs	Guidance	
10	(e)		eg females in population	B1	2.2b	any two distinct comments	
			wider age range in population	B1	2.2b		
			scatter diagram for whole population shows very weak negative correlation	[2]			
10	(f)		Eg Generate a random number, n , between 1 and (eg 20) inclusive and select the n th item in the data set OR select every m th (eg 16th value). For valid solution.	M1 A1 [2]	1.2 1.1	Random no between 1 and 9 and every 17 th item would also work.	Random no between 1 and 31, and then every 15 th item also works, etc.