Question	Answer	Accept	Reject	Marks
number	71130001	710000	Reject	War KS
4 (a) (i)	Anomaly clearly identified (20.44 mm);			1
(ii)	Averaging seen /162.7÷8 /142.26 ÷7; Anomaly excluded/ ÷7 seen; Final answer rounded to 2 decimal places; e.g.: 20.32 (mm)	Ignore sig figs in working  Allow full marks for correct answer, no working, i.e.: 20.32 (mm) = 3 marks  If no working accept these other bald answers: 20.3228 etc (mm) = 2 marks 20.34 (mm) = 2 marks 20.3375 (mm) = 1 mark 20.33 (mm) = 1 mark		3

Question number	Answer	Accept	Reject	Marks
4 (b)	Any two of:			2
	Yes / No (no mark)	Accept reverse arguments		
	MP1 Good way of measuring small values / Measures a larger value;			
	MP2 Taking a larger measurement might reduce (%) errors;	Ignore comments about human error		
	MP3 Not actually measuring what is required (a particular coin);			
	MP4 Possible to make a maths error e.g. when dividing / counting /rounding;	Ignore reference to caliper precision		
	MP5 Not all coins are necessarily the same / idea of anomalous coin / bent / worn;	Ignore comments about gaps		

Question number	Answer	Accept	Reject	Marks
4 (c)	Any three of:	Ignore information about calculating or finding volume		3
	MP1Measure/find mass;	Accept "Weighing" to find mass		
	MP2 Using a named instrument - e.g. (top pan) balance, scale(s);	Ignore measuring weight		
	MP3 A sensible experimental precaution: e.g. Repeat readings / measure mass of several of coins and divide/ check balance zero;			
	MP4 Formula to use (density = mass ÷ volume);			
	MP5 A correct <u>density</u> unit mentioned (e.g. kg/m³);	Ignore volume = пr²h		

Total 9 marks