

1	(a)		$22 \leq f < 24$	B1
	(b)		21.9	M1 $x \times f$ using midpoints M1 (dep on previous mark) " $x \times f$ " \div 40 A1 accept 22 if working seen

2			72	P1 for showing the process of 30×60 (=1800) or 20×54 (=1080)
				P1 (dep P1) for showing the complete process e.g. (" 1800 " – " 1080 ") \div 10
				A1 concluding the answer is 72 (and not 66)

3	(a)	59, 53, 66	B2	for Median = 59, LQ = 53, UQ = 66, may be seen in working		
			(B1)	for one correct)		
	(b)	Yes, with reason	C1	for Yes and comment comparing median ages, ft from (a) Acceptable examples "59" < 70 All statistics/values are lower for coach A (so they are younger) Median is lower The middle age is lower on coach A Not acceptable examples Median is higher Median for coach A is "59" and coach B is 70 The oldest on coach A is 79 and the oldest on coach B is 85 There are people on coach B that are older than on coach A		
	(c)	No, with reason	C1	for No and comment comparing spreads of ages from ranges or IQRs, ft from (a) Acceptable examples $38 < 43$ or " 13 " < 19 Greater difference between greatest and least age for coach B Range for coach B is larger than coach A The range of ages is wider on coach B than on coach A The range is 5 greater on coach B There is a smaller difference between the lower and upper quartiles on coach A than on coach B The IQR is shorter for coach A Not acceptable examples Quartiles are less for coach A $53 < 54$ or $79 < 85$ (oe) Range for coach A is 38 and range for coach B is 43 Coach A ranges from 41-79 but coach B ranges from 42-85		Working A: Range = 38, IQR = "13" B: Range = 43, IQR = 19

4	No (supported)	P1	for process to find total weight of the 4 red bricks, eg. 5×4 (= 20) or for process to find total weight of the 5 blue bricks eg. 9×5 (= 45)	May be seen next to statements 20 must be clearly referenced to the red bricks. $5 + 9 + 6 = 20$ gets no marks
		P1	for process to find total weight of all 10 bricks, eg. " 20 " + " 45 " + 6 (= 71)	
		C1	No with correct supporting evidence Acceptable examples No, it is 7.1 She is wrong, it is 0.1 more No, (the total weight is) 71 not 70 Not acceptable examples Yes No, it is 71	Candidates working in grams will need to give 7100 and 7000 for example as comparable figures