

18	(a)		$30 < h \leq 40$	1	B1 condone \leq for $<$ and vice versa
	(b)	$5 \times 2 + 15 \times 26 + 25 \times 10 + 35 \times 24 + 45 \times 18$ $(= 2300)$ $10 + 390 + 250 + 840 + 810 (= 2300)$		4	M2 for at least 3 correct products using midpoints with intention to add. (M1 for at least 3 products using frequency and a value within the interval with the intention to add. (allow use of upper/lower class bound) or for at least 3 correct products using midpoints without adding)
		$\frac{"10 + 390 + 250 + 840 + 810"}{80} \left[= \frac{"2300"}{80} \right]$			M1 dep on at least M1 being awarded
			28.75		A1oe allow $\frac{115}{4}$ or 28.7 or 28.8 or (29 from correct working)
		cas			Total 5 marks

Question	Working	Answer	Mark	Notes
19	$2x+3+5x-12+3x+1=32$ oe eg $10x-8=32$		5	M1 for setting up an equation. Implied by $x = 4$
	$x = \frac{32+8}{10} [= 4]$ oe or 7 T vanilla = 13 oe			M1 rearranging to find a correct expression for x or for 7 T vanilla
	$\frac{80}{360} \times 45 (=10)$ oe			M1 Correct method to find the number for vanilla for 8Y eg $45 - \frac{280}{360} \times 45$
	$3 \times "4" + 1 - "10"$ or			M1 dependent on the 1 st and 3 rd M1 being awarded. Allow an answer of 3 or a correct method to find their difference. Ft their value of x and 10 if clearly labelled or come from correct working.
		3		A1 dependent on 1st and 3rd method mark being awarded. NB the number 3 can be gained from incorrect working, so need to check it. If no working is shown then award 5/5
				Total 5 marks

Question	Working	Answer	Mark	Notes
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