

Q1 June 2024

28	(a)	$100 < w \leq 150$	B1	cao															
	(b)	152	M1	for finding 5 products within the interval (including end points) with not more than one error, may be seen near table, eg 75×34 (= 2550), 125×29 (= 3625), 175×27 (= 4725), 225×19 (= 4275), 275×11 (= 3025) or for 18200	do not award this mark if the final answer comes from an alternative incorrect method, eg $120 \div 5$ (= 24) or $\Sigma mp \div \Sigma f$ ($875 \div 120$ (= 7.29...)) or $\Sigma mp \div 5$ ($875 \div 5$ (= 175))														
			M1	for $\Sigma fx \div \Sigma f$ eg (“2550” + “3625” + “4725” + “4275” + “3025”) $\div$ 120 or “18200” $\div$ 120	<table><tr><th>Min fx</th><th>Max fx</th></tr><tr><td>1700</td><td>3400</td></tr><tr><td>2900</td><td>4350</td></tr><tr><td>4050</td><td>5400</td></tr><tr><td>3800</td><td>4750</td></tr><tr><td>2750</td><td>3300</td></tr><tr><td>15200</td><td>21200</td></tr></table> Σfx must come from 5 products, fx within intervals (including end points)	Min fx	Max fx	1700	3400	2900	4350	4050	5400	3800	4750	2750	3300	15200	21200
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1700	3400																		
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15200	21200																		
			A1	for answer in the range 151 to 152	Correct midpoints must be used for the award of the A mark														

Q2 Nov 2022

17	176	M1	for a method to find 5 products within intervals (including end points)	<table><tr><th>Min fx</th><th>Max fx</th></tr><tr><td>1200</td><td>1280</td></tr><tr><td>2240</td><td>2380</td></tr><tr><td>4080</td><td>4320</td></tr><tr><td>5400</td><td>5700</td></tr><tr><td>760</td><td>800</td></tr></table>	Min fx	Max fx	1200	1280	2240	2380	4080	4320	5400	5700	760	800
Min fx	Max fx															
1200	1280															
2240	2380															
4080	4320															
5400	5700															
760	800															
		M1	for $\Sigma "fx" \div (8 + 14 + 24 + 30 + 4)$ or $(155 \times 8 + 165 \times 14 + 175 \times 24 + 185 \times 30 + 195 \times 4) \div (8 + 14 + 24 + 30 + 4)$ or $(\text{"1240"} + \text{"2310"} + \text{"4200"} + \text{"5550"} + \text{"780"}) \div \text{"80"}$ or $\text{"14080"} \div \text{"80"}$	$\Sigma "fx"$ must come from 5 products fx within intervals (including end points)												
		A1	cao													