| | | | | | |
|---|---|---|---|---|---|
| **4** | (a) | | $3 < w \leq 4$ | 1 | B1 |
| | (b) | $(12 \times 2.5) + (16 \times 3.5) + (9 \times 4.5) + (2 \times 5.5) + (1 \times 6.5)$<br><br>**or**<br><br>30 + 56 + 40.5 + 11 + 6.5 (= 144) | | 4 | M2 for at least **4** correct products added (need not be evaluated) **or**<br><br>If not M2 then award<br><br>M1 for consistent use of value within interval (including end points) for at least **4** products which must be added<br><br>**or**<br><br>correct midpoints used for at least **4** products and not added |
| | | $[(12 \times 2.5) + (16 \times 3.5) + (9 \times 4.5) + (2 \times 5.5) + (1 \times 6.5)] \div 40$<br><br>**or**<br><br>'144' ÷ 40 | | | M1 (dep on at least M1)<br><br>Allow division by their $\Sigma f$ provided addition or total under column seen |
| | | | 3.6 | | A1 oe |
| | (c) | $\frac{2}{40} + \frac{1}{40}$ | | 2 | M1 for $\frac{a}{40}$ where $0 < a < 40$ or $\frac{3}{b}$ where $b > 3$ where $a$ and $b$ are integers |
| | | | $\frac{3}{40}$ | | A1 0.075 oe |
| | | | | | **Total 7 marks** |