Calculate an estimate for the mean of the following sets of data:
NB: Table space is usually given
a)

| No. of Pets | Frequency | Midpoint | $f x$ |
| :---: | :---: | :---: | :---: |
| $0<x \leq 2$ | 6 |  |  |
| $2<x \leq 4$ | 3 |  |  |
| $4<x \leq 6$ | 2 |  |  |
| $6<x \leq 8$ | 1 |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

c)

| Age | Frequency |
| :---: | :---: |
| $0<x \leq 2$ | 5 |
| $2<x \leq 4$ | 10 |
| $4<x \leq 6$ | 8 |
| $6<x \leq 8$ | 6 |
| $8<x \leq 10$ | 8 |
| $10<x \leq 12$ | 4 |

d)

| Weight (kg) | Frequency |
| :---: | :---: |
| $10<x \leq 16$ | 7 |
| $16<x \leq 22$ | 12 |
| $22<x \leq 28$ | 8 |
| $34<x \leq 40$ | 10 |
| $40<x \leq 46$ | 3 |
| $46<x \leq 52$ | 5 |

b)

| Shoe size | Frequency | Midpoint | $f x$ |
| :---: | :---: | :---: | :---: |
| $1<x \leq 3$ | 6 |  |  |
| $3<x \leq 5$ | 4 |  |  |
| $5<x \leq 7$ | 7 |  |  |
| $7<x \leq 9$ | 10 |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

d)

| Wins | Frequency |
| :---: | :---: |
| $0<x \leq 6$ | 7 |
| $6<x \leq 12$ | 8 |
| $12<x \leq 18$ | 10 |
| $18<x \leq 24$ | 2 |
| $24<x \leq 30$ | 7 |
| $30<x \leq 36$ | 6 |

e) | Height (cm) | Frequency |
| :---: | :---: |
| $10<x \leq 12$ | 10 |
| $12<x \leq 14$ | 14 |
| $14<x \leq 16$ | 8 |
| $16<x \leq 18$ | 5 |
| $18<x \leq 20$ | 3 |
| $20<x \leq 22$ | 4 |

## Exam question:

50 painters painted a wall. The time they took in minutes was recorded. The table shows the results.

Calculate an estimate for mean time taken for painters to paint the wall.

| Time $(\mathrm{m})$ | Frequency |
| :---: | :---: |
| $0<x \leq 10$ | 3 |
| $10<x \leq 20$ | 12 |
| $20<x \leq 30$ | 20 |
| $30<x \leq 40$ | 10 |
| $40<x \leq 50$ | 3 |
| $50<x \leq 60$ | 2 |

