

Objective: To calculate mean from a grouped frequency table



Met

Partially
Met

Not Met

Work on the following sections:

Column 1

Column 2

Extension

Column 1

Calculate an estimate for the mean for the following:

Duration (years)	Frequency
$0 \leq d < 10$	9
$10 \leq d < 20$	13
$20 \leq d < 30$	16
$30 \leq d < 40$	2

Length (cm)	Frequency
$0 \leq L < 30$	8
$30 \leq L < 60$	43
$60 \leq L < 90$	25
$90 \leq L < 120$	4

Column 2

The weights (in KG) of some people were collected. The raw data is shown below:

40 56 40.2 67 41.8
39.4 45.1 53.2 61
47.6 41 38.7 42.1
45.6 43.6

- Construct a frequency table for the results (use sensible intervals)
- Calculate an estimate for the mean from your table

Extension:

State any mistakes that you spot. Correctly calculate the mean salary.

Salary	Frequency	Midpoint	fx
$0 < s \leq 15000$	2	7500	15000
$15000 < s \leq 30000$	15	22500	337500
$30000 < s \leq 45000$	6	37500	225000
$45000 < s \leq 60000$	2	52500	105000
$60000 < s \leq 100000$	2	67500	135000
			2842500

Mean salary = $2842500 \div 5 = \text{£}568500$