

Chapter 3 measures of central tendency in frequency table

1) Mode, median, and mean in frequency table

age	frequency	percentage	Cumulative frequency
2	162		162
15	102		264
23	39		303
38	25		328
42	67		395
55	199		594
N	594		---

$$\text{Mode} = 55$$

$$\text{Median} = 23$$

$$\text{Mean } (\bar{X}) = \frac{\sum X_i F_i}{N}$$

$$\text{Mean } (\bar{X}) = \frac{2 \times 162 + 15 \times 102 + 23 \times 39 + 38 \times 25 + 42 \times 67 + 55 \times 199}{594} = 29.4$$

2) Exercise

Compute mode, median, and mean

age	frequency	percentage	Cumulative frequency
12	62		62
25	102		164
33	39		203
48	25		228
52	67		295
65	99		394
N	394		---

Mode = 25

Median = 33

Mean = 39.8