

IB Math 1 23B.2, 23B.3 Tabular and Grouped Data

This table displays the ages of bus drivers in Seattle.

Age (yrs)	21-25	26-30	31-35	36-40	41-45	46-50	51-55
Frequency	11	14	32	27	29	17	7

Approximate

Mean age? ≈ 37.67 years

$$n = 137$$

Modal class? 31-35 years

middle term $\rightarrow 69$

In what class is the median age? 36-40 years

What percent of the drivers are less than 36 years old? 41.6%

What percent of the drivers are more than 30 years old? 81.75%

What class contains the 75th percentile? 41-45 years

$$\text{Mean} \rightarrow \frac{11(23) + 14(28) + 32(33) + 27(38) + 29(43) + 17(48) + 7(53)}{137}$$

$$\% \text{ less than } 36 \rightarrow \frac{11 + 14 + 32}{137} = .416$$

$$\% \text{ more than } 30 \rightarrow \frac{32 + 27 + 29 + 17 + 7}{137} = .818$$

$$75^{\text{th}} \text{ percentile} \rightarrow .75(137) = 102.75$$

\hookrightarrow looking for driver # 103

HW

23B.2

23B.3