Cumulative Frequency

Cumulative Frequency	Cumulative Frequency is a **running total**. 		
		Age	Frequency
		$0 < a \leq 10$	15
		$10 < a \leq 40$	35
		$40 < a \leq 50$	10

		Cumulative Frequency
		15
		$15 + 35 = 50$
		$50 + 10 = 60$

Cumulative Frequency Diagram	A cumulative frequency diagram is a **curve that goes up**. It looks a little like a stretched-out **S shape**. Plot the cumulative frequencies at the **end-point** of each interval.	
Quartiles from Cumulative Frequency Diagram	**Lower Quartile (Q1): 25%** of the data is less than the lower quartile. **Median (Q2): 50%** of the data is less than the median. **Upper Quartile (Q3): 75%** of the data is less than the upper quartile. **Interquartile Range (IQR)**: represents the **middle 50%** of the data.	 $$IQR = 37 - 18 = 19$$