Chapter 3 Exercises of measures of central tendency
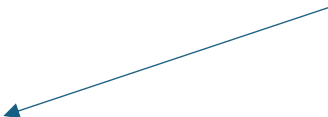
1) Compute the mode, median, and mean for the following sample of raw data

12, 12, 35, 87, 14, 15, 36, 96, 102, 45, 55, 55, 45, 12, 12

Mode: 12

Median: 36

12, 12, 12, 12, 14, 15, 35, 36, 45, 45, 55, 55, 87, 96, 102 (N = 15)

N = 15 is an odd number, so the median locates at $(15+1)/2 = 8^{th}$

Mean: 42.2

This sample is right skewed

2) Compute the mode, median, and mean for the following sample of frequency table

Age	Frequency	Cumulative frequency
2	132	132
15	11	143
21	26	169
48	97	266
69	158	424
73	69	493
N	493	---

Mode: 69

Median: 48

N = 493 is an odd number, so the median locates at (493+1)/2 = 247th

Mean: 43.75

This sample is left skewed