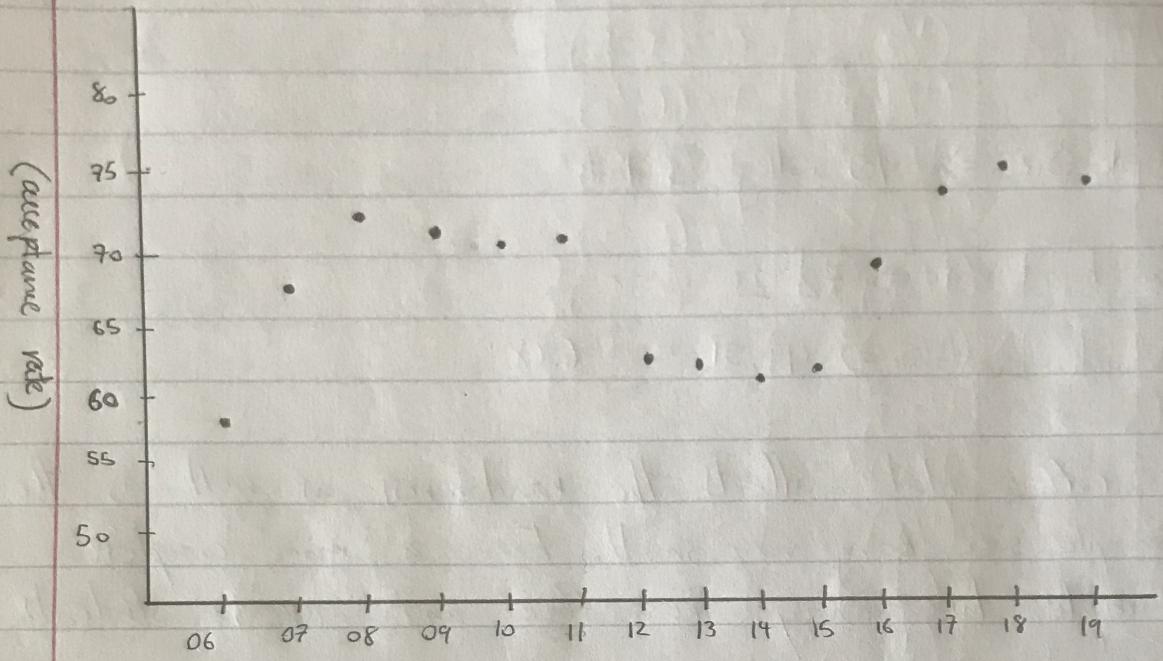


## UNIT 0

- 1) • Sample Size  $\Rightarrow$  10 college students
- Mean heart rate  $\Rightarrow$  72.2
- Standard deviation  $\Rightarrow$  ~~49.51~~  $\Rightarrow$  6.68
- The coffee intake affects the randomness, as well as the sample size being very small. For a more complete sample take away the coffee and increase students.

## 2) $\rightarrow$ LibreOffice Calc Spreadsheet

- Mean of newly enrolled (2006 - 2019)  $\Rightarrow$  425.9
- Avg acceptance rate (06-19)  $\Rightarrow$  ~~28.87~~  $\Rightarrow$  0.67
- Standard deviation  $\Rightarrow$  ~~31~~  $\Rightarrow$  0.051
- Outliers  $\Rightarrow$



(Year / Class 2006 - 2019)

3) a) 75<sup>th</sup> Percentile - \$165.00

b) \$113.00 → 35<sup>th</sup> Percentile

c) Mean  $\Rightarrow$  153.6

Standard Deviation  $\Rightarrow$  65.31

4) a)  $\left(\frac{1}{6}\right)^3$       b)  $\left(\frac{1}{6}\right)^6$

5) a)  $\left(\frac{1}{2}\right)^5$

b)  $\left(\frac{1}{2}\right)^8$

c) The one that leads back to the starting point is more common.

## ~ UNIT 1 ~

1) 
$$\begin{array}{r} 0.9 \\ 7.84 \\ -7.35 \\ -0.95 \end{array} \quad \left. \begin{array}{l} \text{1 Share expectation value profit} \Rightarrow 0.44 \\ \text{1000 Share} \Rightarrow 440 \end{array} \right\}$$

2) a)

$x$	$N_{good}$	$P(x)$	$x \cdot P(x)$
0	0	.1	0
1	0	.2	1
2	0	.3	.1
3	0	.4	.4
4	1	.5	.9
5	0	.6	1.6
6	3	.7	2.5
7	6	.8	3.6
8	0	.9	4.9
9	0	1	6.4
10	0	5.5	8.1
			10
			38.5

b) No, if it was there would be more even distribution over the 5 (mid pt.)

c) No.