

1. Simon C.A.

MEAN = 75
STD DEV = 3

BILL: X = 80

$$Z = \frac{X - \mu}{\sigma}$$

$$= \frac{80 - 75}{3}$$

$$= \frac{5}{3}$$

= 0.33

BILL

10:00 CA

MEAN = 83
STD DEV = 2

SALLY: X = 83

$$Z = \frac{X - \mu}{\sigma}$$

$$= \frac{83 - 83}{2}$$

$$Z = 0$$

$X^2 - 1$

$1 - X^2$

2. (2) 33

- 37
- 43
- 51
- 62
- 65
- 72

16 TOTAL

$$\left[\begin{array}{l} 83 \\ 91 \end{array} \right] \rightarrow \frac{83 + 91}{2} = \frac{174}{2} = 87$$

- 105
- 110
- 201
- 305
- 317
- 329
- 330

Q₁ = 56.5
Q₂ = 87
Q₃ = 253

(3)

- 33
- 37
- 43
- 51
- 62
- 65
- 72
- 83

$$\left[\begin{array}{l} 51 \\ 62 \end{array} \right] \rightarrow \frac{51 + 62}{2} = 56.5$$

- 91
- 105
- 110
- 201
- 305
- 317
- 329
- 330

$$\left[\begin{array}{l} 201 \\ 305 \end{array} \right] \rightarrow \frac{201 + 305}{2} = 253$$