

Section 2.3

- #44 in May:
- \$759 for 15 days
 - \$1985 for 5 days
 - \$1410 for 5 days
 - \$348 for 6 days

$$\text{mean daily balance in May} = \frac{(759)(15) + (1985)(5) + (1410)(5) + (348)(6)}{31}$$

$$= \$982.19$$

Section 2.4

#14 range = max - min = 230 - 160 = 70

$$\mu = \text{mean} = \frac{173 + 175 + 200 + 173 + 160 + 185 + 195 + 230 + 190 + 180}{10}$$

$$= 186.1$$

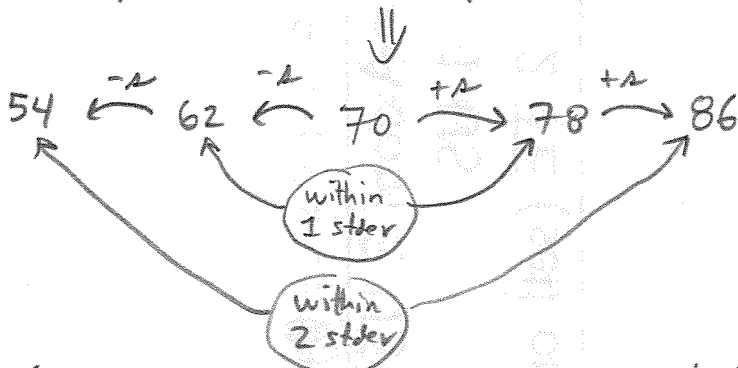
$$\sigma^2 = \text{variance} = \frac{(173 - 186.1)^2 + (175 - 186.1)^2 + (200 - 186.1)^2 + \dots + (180 - 186.1)^2}{10}$$

$$= 340.09$$

$$\sigma = \text{standard deviation} = \sqrt{\sigma^2} = \sqrt{340.09} = 18.4415$$

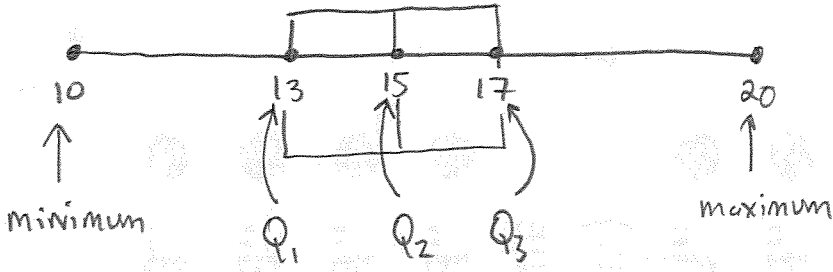
#30 Given (bell-shaped)
 $\bar{x} = 70, A = 8$

from empirical rule, 95% of data lies within 2 stdev of mean

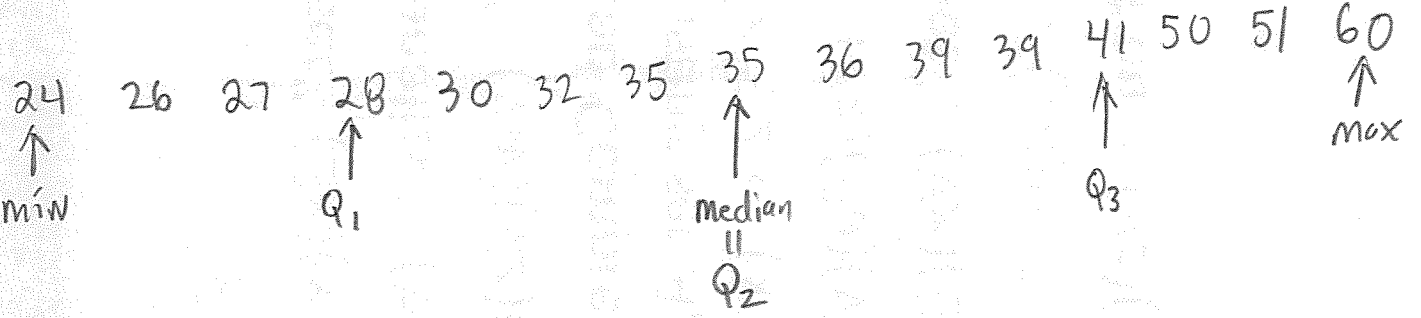


Therefore, about 95% of the data lies between \$54 and \$86

#15



#17 Order the data:



a) min = 24 Q₂ = 35 max = 60
 Q₁ = 28 Q₃ = 41

