§ 6A CHARACTERIZING DATA

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12/13/14

13. IN ORDER: 5.63 5.64 5.67 5.70 5.72 5.73

$$\text{MEDIAN} = \frac{5.67 + 5.70}{2} = 5.685$$

MODE: 6-WAY TIE!

$$\text{MEAN} = \frac{5.63 + 5.64 + \ldots + 5.73}{6} = \frac{34.09}{6} = 5.682$$

15. 176 189 195 200 201 215 213

MEDIAN = 200

MODE: 7-WAY TIE!

$$\text{MEAN} = \frac{\text{SUM}}{7} = \frac{1389}{7} = 198.4$$

16. $\text{MEDIAN} = \frac{78+80}{2} = 79$

MODE = 70, 73, 76, 81

$$\text{MEAN} = \frac{\text{SUM}}{20} = \frac{1568}{20} = 78.4$$

19. .7901 .8126 .8143 .8161 .8165 .8176 .8194

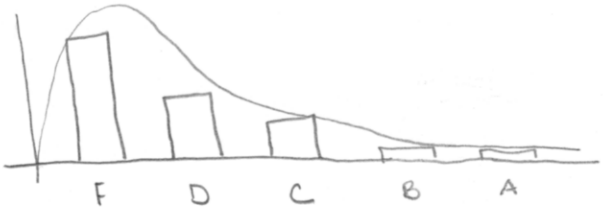
MEAN: .8124
MED: .8161
MODE: 7-WAY TIE

REMOVE OUTLIER: .7901

MEAN: .8161
MED: .8163
MODE: 6-WAY TIE.

27. (a) ONE PEAK (F)

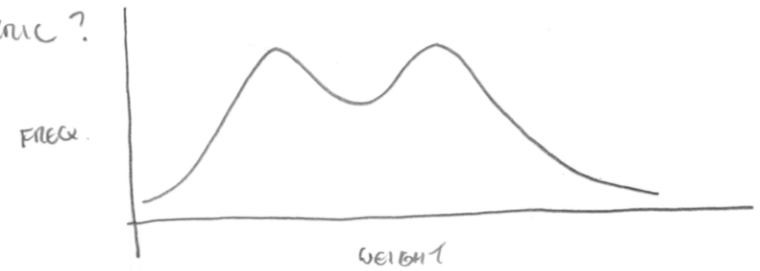
(b) RIGHT SKEWED



(c) MODERATE VARIATION. MOST STUDENTS SCORED SIMILARLY (F).

28. (a) TWO PEAKS - ONE FOR FIGURE SKATER (LIGHTER) & ONE FOR HOCKEY PLAYERS (HEAVIER)

(b) SYMMETRIC?



(c) LARGE - BIG DIFFERENCES IN WEIGHT

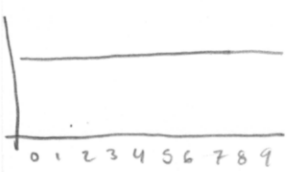
29. (a) TWO PEAKS - ONE FOR MEN & ONE FOR WOMEN

(b) SYMMETRIC (JUST LIKE #28)

(c) LARGE.

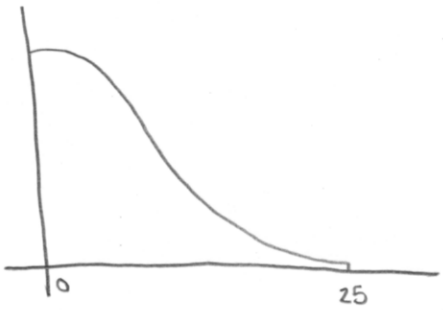
30. (a) NO PEAK (UNIFORM)

(b) SYMMETRIC



(c) LARGE

40. (a)



RIGHT - SKEWED

(b) 50%

(c) 50%

(d) MEDIAN : PRO - LOWER #

CON - COULD BE WAY OFF FOR A FEW PEOPLE

MEAN : PRO - MOST PEOPLE WILL WAIT LESS

CON - SLIGHTLY HIGHER THAN WHAT MOST PEOPLE WILL WAIT.