

34)

		Hits	AB
Joe	Right	40	100
	Left	80	400
Moe	Right	120	400
	Left	10	100

a)

	Hits	No Hits
Joe	120	380
Moe	130	370

b) Overall

Joe  $\frac{120}{500} = .240$

Moe  $\frac{130}{500} = .260$

Overall Moe is better

Right

Joe  $\frac{40}{100} = .400$  Right Joe is better

Moe  $\frac{120}{400} = .300$

Left

Joe  $\frac{80}{400} = .200$  Left Joe is better

Moe  $\frac{10}{100} = .100$

c) Left handers are significantly harder to hit than righthanders  
 Joe has 80% of his AB's against left-handers and Moe has 80% of his AB's versus righthanders.

21)

	H	S	L	
Buyers	20	7	9	36
Nonbuyers	29	25	43	97
	49	32	52	133

# 19

	H	S	L
B	20/36	7/36	9/36
NB	29/97	25/97	43/97

	H	S	L
B	55.6%	19.4%	25%
NB	29.9%	25.8%	44.3%

Buyers are more likely to buy recycled filters yet 1/4 don't buy.

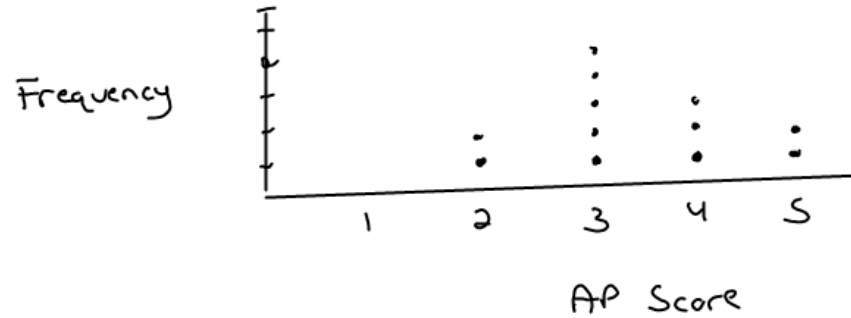
# 1/2 Displaying Quantitative Data

## Stemplots and Dotplots

1) Dotplot -

ex AP scores

3 4 2 4 5 5 3 3 3 2 4 3



a) Stemplot

Leaf - the final digit

Stem all but the final digit

27	117	4
2 stem	11 stem	0 stem
7 leaf	7 leaf	4 leaf

- stems place in a vertical column (smallest at top)
- no gaps
- leaf goes next to stem

Babe Ruth HR's

54 59 35 44 46 25 47 60 54 46 49 46 41 34 22  
Hgt low

2		5 2
3		5 4
4		4 6 7 6 9 6 1
5		4 9 4
6		0

2		2 5
3		4 5
4		1 4 6 6 6 7 9
5		4 4 9
6		0

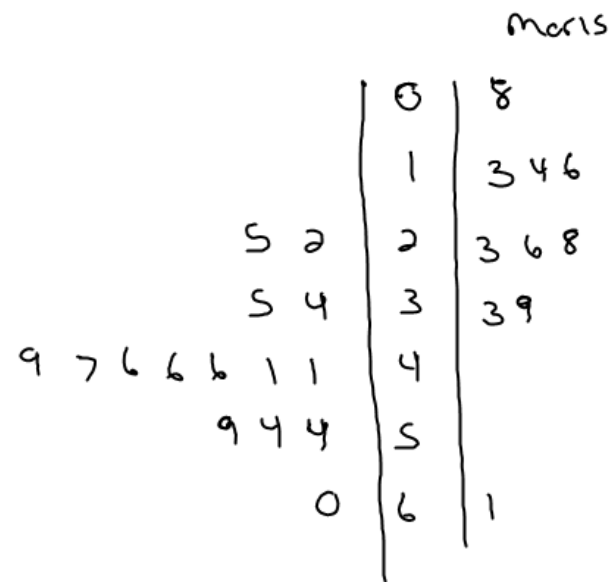
Roger Maris

8 33 39 23 13 16 14 61 26 28

0		8
1		3 6 4
2		3 6 8
3		3 9
4		
5		
6		1

0		8
1		3 4 6
2		3 6 8
3		3 9
4		
5		
6		1

Compare them  
side by side stemplot



#2

37, 46, 50