

Math 221: Basic Statistics Exam #1 Solutions

Week #7

(1) Version A

1	G
2	D
3	A
4	H
5	C
6	E
7	B
8	F

Mean	64.84
Median	65
Mode	60
Midrange	65

(2)

S	L
4	5
5	61
6	48
7	8639
8	111
9	79
10	0

(3)

Min	124
Q1	169
Median	244
Q3	311
Max	417

(4)

a	1.071
b	410.2

(5)

(6) Order by size,

from most to least,
Histogram & Ogive

	f	Cumulative %
M	28	40.58%
D	19	68.12%
S	17	92.75%
W	5	100%
	69	N/A

Version B

1	D
2	A
3	H
4	G
5	E
6	C
7	F
8	B

(1)

Mean	63.24
Median	63
Mode	60
Midrange	63

(2)

S	L
4	9
5	5
6	08
7	72
8	205553
9	879

(3)

Min	127
Q1	173
Median	249
Q3	315
Max	418

(4)

(5) Same as Version A.

(6) Same Instructions.

	f	Cumulative %
M	29	40.28%
D	20	68.06%
S	15	88.89%
W	8	100%
	72	N/A

Version C

1	F
2	C
3	B
4	G
5	E
6	A
7	D
8	H

(1)

Mean	62.28
Median	62
Mode	59
Midrange	62

(2)

S	L
3	9
4	
5	04
6	3
7	751
8	877210
9	51

(3)

Min	137
Q1	183
Median	259
Q3	325
Max	418

(4)

(5) Same as Version A.

(6) Same Instructions.

	f	Cumulative %
S	25	36.23%
M	22	68.12%
W	14	88.41%
D	8	100%
	69	N/A

Version A

(7)

	D	N	
S	4	6	10
NS	11	9	20
	15	15	30

	D	N	
S	40%	60%	100%
NS	55%	45%	100%
	50%	50%	100%

	D	N	
S	27%	40%	33%
NS	73%	60%	67%
	100%	100%	100%

(8)

$\sum x$	1815
$\sum y$	244
$\sum x^2$	341,275
$\sum y^2$	6210
$\sum xy$	42,935
SS(x)	11,852.5
SS(y)	256.4
SS(xy)	-1351
r	-0.775

Version B

(7)

	D	N	
S	5	8	13
NS	10	7	17
	15	15	30

	D	N	
S	38%	62%	100%
NS	59%	41%	100%
	50%	50%	100%

	D	N	
S	33%	53%	43%
NS	67%	47%	57%
	100%	100%	100%

(8)

$\sum x$	1865
$\sum y$	244
$\sum x^2$	359,675
$\sum y^2$	6210
$\sum xy$	44,155
SS(x)	11,852.5
SS(y)	256.4
SS(xy)	-1351
r	-0.775

Version C

(7)

	D	N	
S	3	5	8
NS	12	10	22
	15	15	30

	D	N	
S	37.5%	62.5%	100%
NS	55%	45%	100%
	50%	50%	100%

	D	N	
S	20%	33%	27%
NS	80%	67%	73%
	100%	100%	100%

(8)

$\sum x$	1865
$\sum y$	294
$\sum x^2$	359,675
$\sum y^2$	8900
$\sum xy$	53,480
SS(x)	11,852.5
SS(y)	256.4
SS(xy)	-1351
r	-0.775