

If determining grades from percentiles, what will the break points for letter grades be when you want:

90th percentile and up = A

80-89th percentile = B

70-79th percentile = C

60-69th percentile = D

< 60th percentile = F

Part 1: Answer - Composite Scores GPE method

Use the transform-compute feature to obtain composite GPE scores from which you can assign composite grades. Use absolute standards of:

90-100	A	4
80-89	B	3
70-79	C	2
60-69	D	1
<60	F	0

Test 1 (.25)	Test 2 (.30)	Test 3 (.45)
70	63	80
50	72	78
80	85	95
65	70	77
92	95	96
83	88	87

test1	test2	test3	test1gpe	test2gpe	test3gpe	compositgpe	compositegrade
70.00	63.00	80.00	2	1	3	2.15	C
50.00	72.00	78.00	0	2	2	1.50	D
80.00	85.00	95.00	3	3	4	3.45	B
65.00	70.00	77.00	1	2	2	1.75	D
92.00	95.00	96.00	4	4	4	4.00	A
83.00	88.00	87.00	3	3	3	3.00	B

Part 2: Answer - Curving Scores

Have PASW curve original scores to a scale where

mean = 75

Standard Deviation = 8

Original Scores

40
60
55
52
60
80

Original Scores		
N	Valid	6
	Missing	0
Mean		57.8333
Std. Deviation		13.12123

Put GTF formula into PASW

$$\text{CurvedScore} = S_{new} \left(\frac{X_{original} - \bar{X}_{original}}{S_{x_{original}}} \right) + \bar{X}_{new}$$

$$\text{CurvedScore} = 8 \left(\frac{X_{original} - 57.8333}{13.12123} \right) + 75$$

Formula in PASW:

$$8 * ((\text{Scores}-57.8333)/13.12123)+75$$

Scores	curvedscore
40.00	64.13
60.00	76.32
55.00	73.27
52.00	71.44
60.00	76.32
80.00	88.52

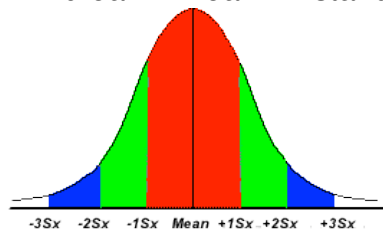
Part 3: Answer - Component Grades

Use the hoola data file

If grading on the curve, what would be the break points for the grades A, B, C, D and F?

average of 2 hoola scores		
N	Valid	151
	Missing	0
Mean		38.6722
Std. Deviation		14.92169

A = mean + 2 standard deviations: 68.52
 B/C break = mean + 1 standard deviation: 53.59
 C/D break = mean - 1 standard deviation: 23.75
 D/F break = mean - 2 standard deviations: 8.82



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A= 57.5 and higher
 B/C Break: 51.5
 C/D Break: 49.2
 D/F Break: 44.6

average of 2 hoola scores		
N	Valid	151
	Missing	0
Percentiles	60	44.6000
	70	49.2000
	80	51.5000
	90	57.5000

