

GPA and Grading on a Curve

1. Who has the best GPA and who has the worst GPA?

Hannah

Course	Units	Grade
Statistics	5	B
Health	2	C
PE	1	D
Dance	3	A
Psychology	3	F

Total

Kim

Course	Units	Grade
Marketing	4	A
Political Science	3	D
Statistics	5	B
History	3	C
Health	2	F

Total

Miley

Course	Units	Grade
Business	3	C
History	3	D
Statistics	5	A
Choir	4	B
PE	1	F

Total

Donald

Course	Units	Grade
Business	3	D
Marketing	3	D
Statistics	5	C
Political Science	4	B
PE	1	A

Total

2. Who has the best GPA and who has the worst GPA?

Hannah

Course	Units	Grade
Statistics	5	A
Health	2	C
PE	1	B
Dance	3	D
Psychology	3	F

Total

Kim

Course	Units	Grade
Marketing	4	C
Political Science	3	F
Statistics	5	B
History	3	A
Health	2	D

Total

Miley

Course	Units	Grade
Business	3	B
History	3	C
Statistics	5	A
Choir	4	B
PE	1	D

Total

Donald

Course	Units	Grade
Business	3	C
Marketing	3	D
Statistics	5	D
Political Science	4	B
PE	1	A

Total

Solutions

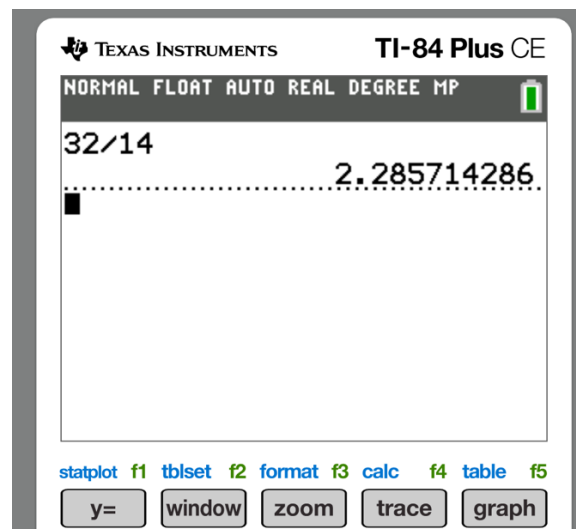
Hannah

Course	Units	Grade	x	wx
Statistics	5	B	3	15
Health	2	C	2	4
PE	1	D	1	1
Dance	3	A	4	12
Psychology	3	F	0	0

Total

14

32



$$\bar{w} \approx 2.29$$

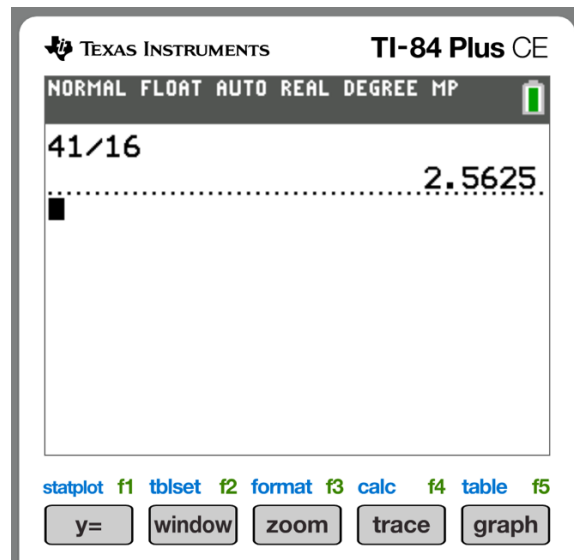
Miley

Course	Units	Grade	x	wx
Business	3	C	2	6
History	3	D	1	3
Statistics	5	A	4	20
Choir	4	B	3	12
PE	1	F	0	0

Total

16

41



$$\bar{w} \approx 2.56$$

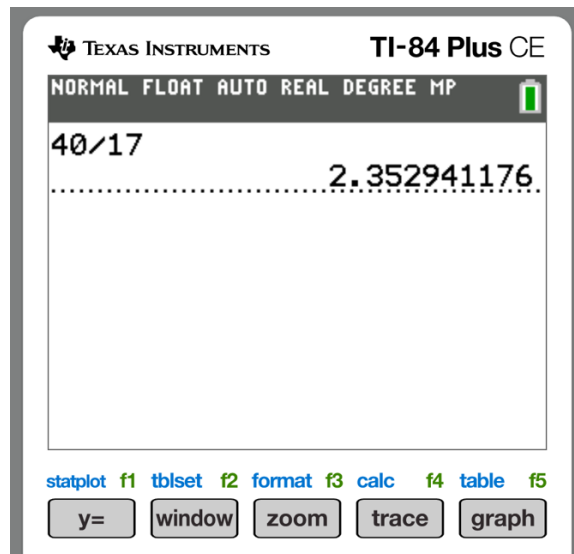
Kim

Course	Units	Grade	x	wx
Marketing	4	A	4	16
Political Science	3	D	1	3
Statistics	5	B	3	15
History	3	C	2	6
Health	2	F	0	0

Total

17

40



$$\bar{w} \approx 2.35$$

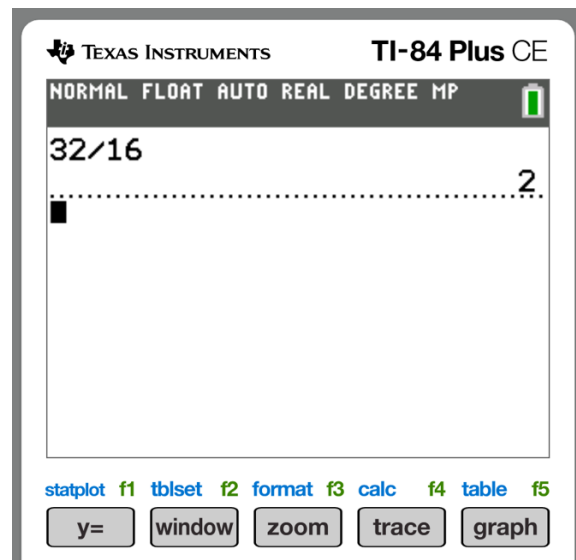
Donald

Course	Units	Grade	x	wx
Business	3	D	1	3
Marketing	3	D	1	3
Statistics	5	C	2	10
Political Science	4	B	3	12
PE	1	A	4	4

Total

16

32



$$\bar{w} \approx 2.00$$

Miley has the highest G.P.A. and Donald has the lowest.

3. Test 1 Scores are recorded and the mean was 96.2 with a standard deviation of 26.4. Determine the following grades based on the “curve”.

Name	Test Score	Curved Grade	z	Unusual
Hannah	138	B	1.58	N
Miley	150	A	2.04	Y
Kim	110	C	0.52	N
Donald	36	F	-2.28	Y
Steve	100	C	0.14	N
Jessica	95	C	-0.05	N
Michael	70	C	-0.99	N

4. Test 1 Scores are recorded and the mean was 92.8 with a standard deviation of 29.6. Determine the following grades based on the “curve”.

Name	Test Score	Curved Grade	z	Unusual
Hannah	142	B	1.66	N
Miley	130	B	1.26	N
Kim	105	C	0.41	N
Donald	16	F	-2.59	Y
Steve	65	C	-0.94	N
Jessica	54	D	-1.31	N
Michael	78	C	-0.50	N