Notes More Weighted Averages

Name: Key

7th Grade Math

Grade Point Averages

1. Many colleges and universities use a weighted average grading system. Courses that are worth more credits have a bigger influence on your grade. Letter grades correspond to the numerical grades show below:

A	=	4		B –	=	2.7		D +	=	1.3
A –	=	3.7		C+	=	2.3		D	=	1
B +	=	3.3		C	=	2		D –	=	0.7
B	=	3		C –	=	1.7		E	=	0

a. Evaluate the GPA for both scenarios for the student who received the following grades:

Calculus	4 credits	D –		Chemistry	4 credits	D
English Lit.	3 credits	A		Computer Sci.	3 credits	B +
History	3 credits	A				

Scenario 1: GPA average weighted based on credits Like colleges or universities

Total credits 17

$4 \cdot .7 + 3 \cdot 4 + 3 \cdot 4 + 4 \cdot 1 + 3 \cdot 3.3$

$2.8 + 12 + 12 + 4 + 9.9$

Total weighted credits 40.7 → GPA $\frac{40.7}{17} = 2.394$

Scenario 2: GPA average NOT weighted like the JH

$GPA = \frac{.7 + 4 + 4 + 1 + 3.3}{5}$

$GPA = \frac{13}{5} = 2.6$

b. Evaluate the GPA for both scenarios for the student who received the following grades:

Humanities	3 credits	B –		Calculus	4 credits	C –
Weightlifting	2 credits	A		Communications	3 credits	A

Scenario 1: GPA average weighted based on credits Like colleges or universities

Total credits 12

$3 \cdot 2.7 + 2 \cdot 4 + 4 \cdot 1.7 + 3 \cdot 4$

$8.1 + 8 + 6.8 + 12$

Total weighted credits = 34.9

$GPA = \frac{34.9}{12} = 2.908$

Scenario 2: GPA average NOT weighted like the JH

$GPA = \frac{2.7 + 4 + 1.7 + 4}{4}$

$GPA = \frac{12.4}{4} = 3.1$