Name:	//- A A II I
MATH 100	"I wasn't a failed DJ. I was
Fall 2023	pre-successful."
HW 2: Due 09/13	– Jason Mendoza, The Good Place

Problem 1. (10pt) Your history class course grade is determined by the following components:

Homeworks	25%
Paper I	10%
Paper II	10%
Paper III	10%
Project	30%
Quizzes	15%

Suppose that your homework average was 82%, your grades on the papers were 68%, 84%, and 76%, respectively, your project grade was 88%, and your quiz average was 94%.

- (a) Compute your course average.
- (b) If the project was a final project that had not yet occurred, i.e. you had not yet received the 88%, but all the other course grades were as listed above, then what is your current course average?

Problem 2. (10pt) Suppose you received the following grades this semester:

Course	Credits	Grade
BIO 101: Human Biology	3	В
MATH 104: Precalculus	4	B+
RELS 102: Religion and Society	3	A-
ENG 207: Writing about World Mythology	3	В-
ECON 102: Principles of Microeconomics	3	C+

Given the following grade weights,

Grade	Weight	Grade	Weight
A	4.0	C+	2.3
A-	3.7	С	2.0
B+	3.3	C-	1.7
В	3.0	D	1.0
B-	2.7	F	0

- (a) Compute your semester GPA.
- (b) If your previous GPA based on 67 credits was 3.308, what is your current overall GPA?

Problem 3. (10pt) Showing all your work, convert the following:

- (a) 0.4 megagrams to centigrams
- (b) 87 oz to stones [1 oz = 28.35 g, 1 stone = 6.35 kg]
- (c) \$98 per hour to MXP per minute [\$0.057 = 1 MXP]
- (d) $6,000 \text{ ft}^2 \text{ to mi}^2 [5280 \text{ ft} = 1 \text{ mi.}]$
- (e) 0.05 meters per square second to feet per square hour

Problem 4. (10pt) Suppose you are talking with your friend who has moved to Germany. The conversation has drifted to NYC housing. Currently, the cost of space in NYC is approximately \$1,600 per square foot.

- (a) For your friend, convert this to Euros per square meter. [€1= \$1.07; 1 ft = 0.3048 m]
- (b) Using (a), find the conversion factor from dollars per square foot to Euros per square meter.
- (c) Use your answer from (b) to convert \$1,845 per square foot to Euros per square meter.