

Name: \_\_\_\_\_

**MATH 101**

**Spring 2024**

**HW 6: Due 02/12**

*"I don't know, Marge. Trying is the first step  
towards failure."*

*— Homer Simpson, The Simpsons*

**Problem 1.** (10pts) Showing all your work, compute the following:

(a) 86% of 920

(b) 4% of 77

(c) 180% of 9

**Problem 2.** (10pts) Showing all your work, compute the following:

- (a) 600 decreased by 45%
- (b) 88 increased by 34%
- (c) 1,450 increased by 111%

**Problem 3.** (10pts) Your biology class course grade is determined by the following components:

Homeworks	60%
Quizzes	5%
Midterm	15%
Final	20%

Suppose that your homework average was 91%, your quiz average was 81%, your midterm average was 79%, and your final exam average was 86%.

- (a) Compute your course average.
- (b) If the final exam had not yet occurred, i.e. you had not yet received the 86%, but all the other course grades were as listed above, then what is your current course average?