Math 123
Fall 2022
Dr. Lily Yen

Quiz 1

Show all your work

Name: _____
Number: _____
Signature: _____
Score: ___/19

Problem 1: Write 65432 as a Babylonian numeral.

Score: /2

Problem 2: Translate the subtraction problem in the Hindu-Arabic numeral $447 - 124$ to a subtraction problem in Mayan numeral, and find the answer in Mayan numeral.

0	1	2	3	4	5	6	7	8	9
									

10	11	12	13	14	15	16	17	18	19
									

Score: /3

Problem 3: Given the following, find the second largest. Each part correctly converted receives one mark.

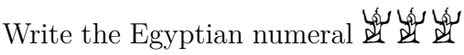
a. 

b. 

c. $C25A_{16}$, a hexadecimal numeral.

d. MMCDXLVII

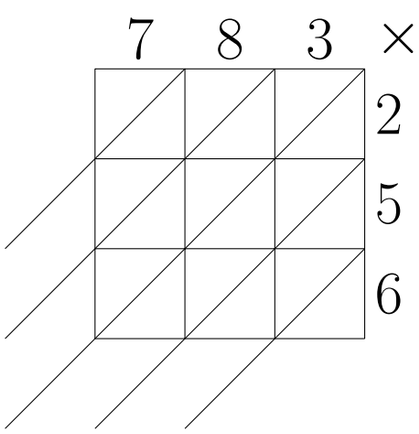
Score: /4

Problem 4: Write the Egyptian numeral  using a Hindu-Arabic numeral.

1	10	100	1000	10 000	100 000	1 000 000
						

Score: /2

Problem 5: Multiply 783×256 using the galley method.



Score: /2

Problem 6: Compute $1021001_3 - 220112_3$ using the two-line algorithm, then check your answer by converting the problem including its answer to base 10.

Score: /3

Problem 7: Fire Horse has a bag of jellybeans. When she lines them up 6 in a row or 8 in a row, she has 3 left over in each case. If she lines them up 11 in a row, she has 5 left over. Find the smallest number of jellybeans that Fire Horse may have.

Score: /3