

Math 123-01
Fall 2025
Dr. Lily Yen

Quiz Two
Show all your work

Name: _____
Number: _____
Signature: _____
Score: ____/10

Problem 1: Convert 81_{10} into base-2.

Score: ____/1

Problem 2: The following Mayan numeral has three places. Express it as a Hindu-Arabic numeral.



Score: ____/2

Problem 3: The following Kaktovik numeral has 4 places. Find its Hindu-Arabic numeral.



Score: ____/2

Problem 4: Convert $16\,745_{10}$ to a Babylonian numeral.

Score: ____/2

Problem 5: Fire Horse likes to play with her model dragons. When she lines them up 7 in a row, she has 5 left over. When she lines them up 6 in a row, she finds her last row short of 2 dragons to complete a row. Suppose her collection of dragons contains at least 50, find the smallest possible number of dragons in her collection.

Score: ____/3