

Math 123-02  
Spring 2026  
Dr. Lily Yen

Quiz 2

Show all your work

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

Number: \_\_\_\_\_

Signature: \_\_\_\_\_

Score: \_\_\_\_/10

**Problem 1:** Convert  $67_{10}$  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  $14\,766_{10}$  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 4 left over. When she lines them up 6 in a row, she finds her last row short of 1 dragon 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