

Math 123-01
Summer 2025
Dr. Lily Yen

Quiz Two

Show all your work

Name: _____
Number: _____
Signature: _____
Score: ____/11

Problem 1: Convert 5142_{10} into base 4.

Score: /2

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 168745_{10} to a Babylonian numeral.

Score: /2

Problem 5: In the Dungeon Theatre of the Dragones, the seats are arranged 7 in a row to the left of the stage and 9 in a row to the right of the stage. Suppose the extended family of Fire Horse gathers to see a show in the Dungeon Theatre; if they all sit on the left of the stage, there are 3 members of the family without a seat. If they all sit on the right of the stage, there are 5 empty seats. Find the second smallest possible number of seats the Dungeon Theatre may have.

Score: /3

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