

Math 123-01
 Summer 2025
 Dr. Lily Yen

Quiz One

Show all your work

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

Problem 1: In a safari zoo with zebras and ostriches (at least one of each), suppose you count a total of 22 legs, how many of each kind may be in the zoo? Make a table of values to cover all possible cases.

Ostriches:	1	3	5	7	9
Zebras:	5	4	3	2	1

From your table of values, which of the following numbers are possible for the total number of eyes? Circle all correct ones.

12, 16, 22, 28

Since we have 6 to 10 animals, the number of eyes could be all even numbers from 12 to 20, so 22 and 28 are both too big.

Score: /4

Problem 2: Share a 2.6-metre fruit leather with a friend such that your friend gets 80 centimetres more than you.

Score: /2

Problem 3: Solve the following 4×4 Kenken puzzle.

2-	24×		3+
3	2	4	1
1	3-	3	2
2÷		5+	
4	1	2	3
2	8+	1	4
	3		

Score: /4