



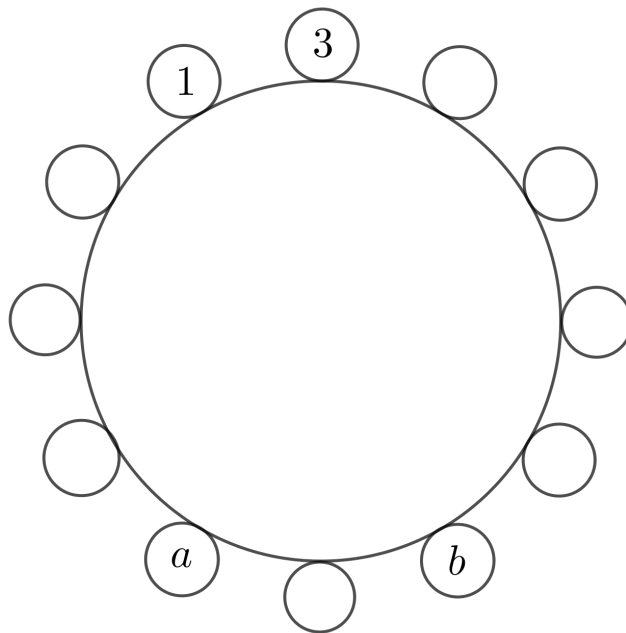
## Problem of the Week

### Problem C

#### Take a Seat 1

Twelve people are seated around a circular table. They each hold a card with a different integer from 1 to 12 on it. For any two people sitting beside each other, the positive difference between the integers on their cards is no more than 2. The people with integers 1, 3,  $a$ , and  $b$  are seated as shown.

What is the value of  $a + b$ ?



NOTE: The *positive difference* between two numbers is found by subtracting the smaller number from the larger number.