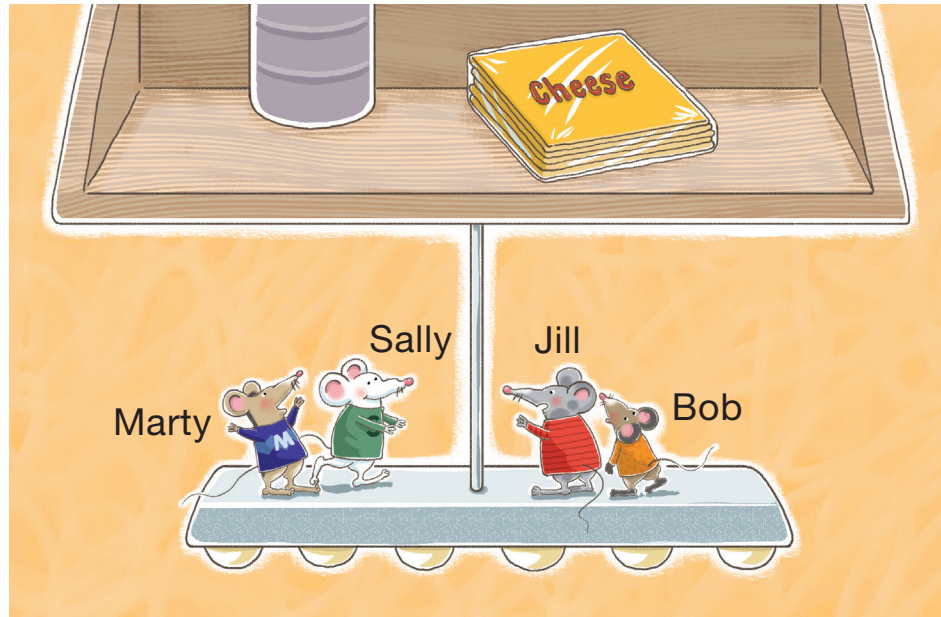


Jill, Sally, Marty, and Bob Did It

Marty and Sally are on one side of the lamp. Jill and Bob are on the other side. The lamp is balanced! What could be the masses of the four mice?



Work with a partner. The mice can have any of the masses below. Each mouse has a different mass.

- | | | |
|---------|---------|---------|
| 9 grams | 6 grams | 3 grams |
| 8 grams | 5 grams | 2 grams |
| 7 grams | 4 grams | 1 gram |

You can use connecting cubes to represent each mouse's mass. Check your combinations on the two-pan balance.

Record the combinations of masses in the tables on the back of this page.

Jill and Bob’s total mass should equal Sally and Marty’s total mass. The first row shows an example.

Mouse Masses in Grams

Sally + Marty	Total	Jill + Bob	Total
5 + 4	9	8 + 1	9