

Escape from the castle

By Declan-Ray Smith

The first room: Key is B

5,2,1

The Hidden numbers at the bottom are.

2,5,6

I know this because the top and bottom number always have to add up to 7.

The total of the hidden numbers is B.

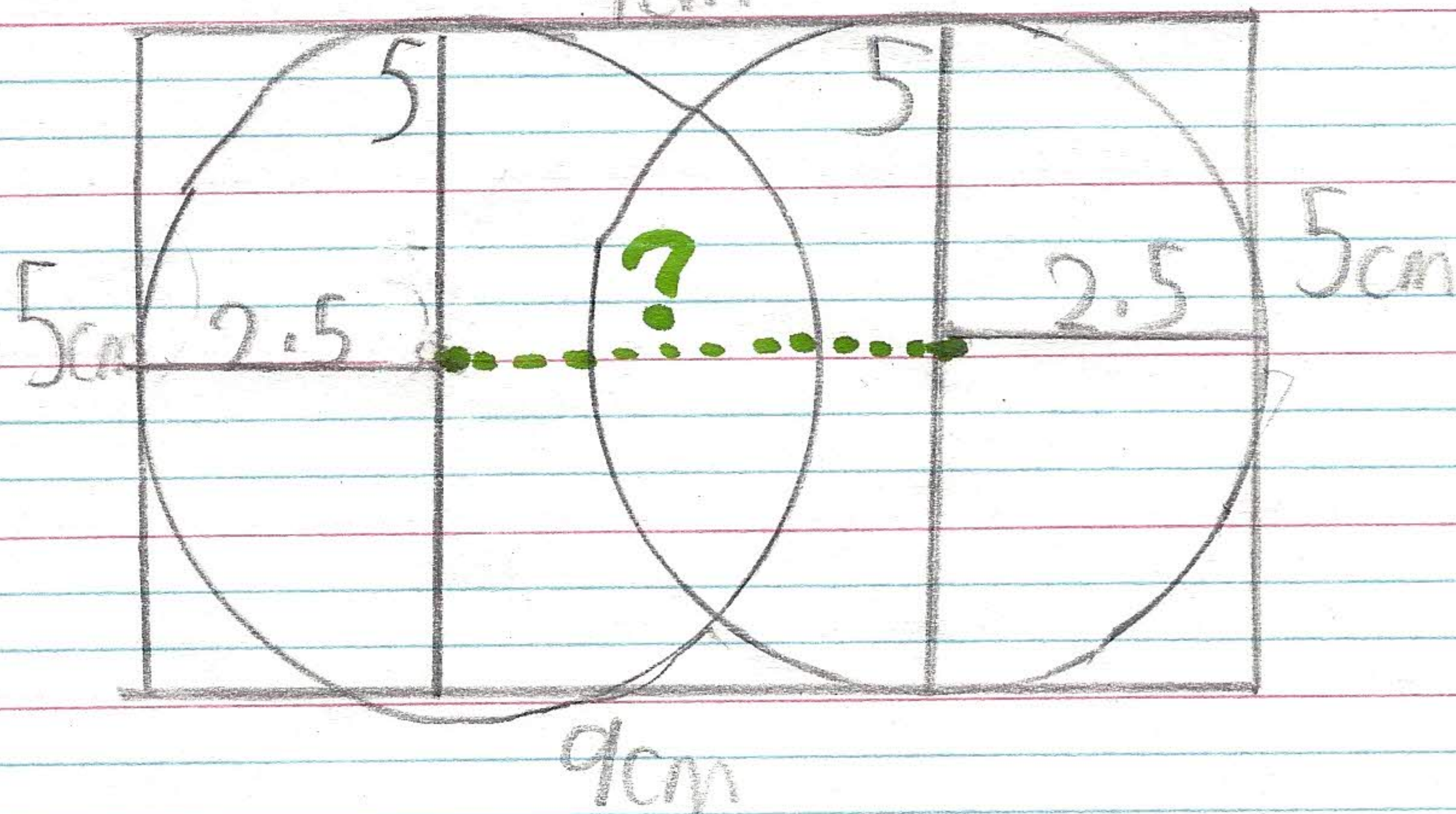
The second room: Key is 9

8 5 4 7 9

The third room: Key is 4

The width of the rectangle is 9cm

The diameter of the circles is 5cm, because the height of the rectangle which touches the edges of the circles. The radius is 2.5cm because it is half the diameter.



The distance between the centres is
 $9\text{cm} - 2.5\text{cm} - 2.5\text{cm} = 4\text{cm}$

The fourth room: The Key is 14

7

2

6

5

1

3

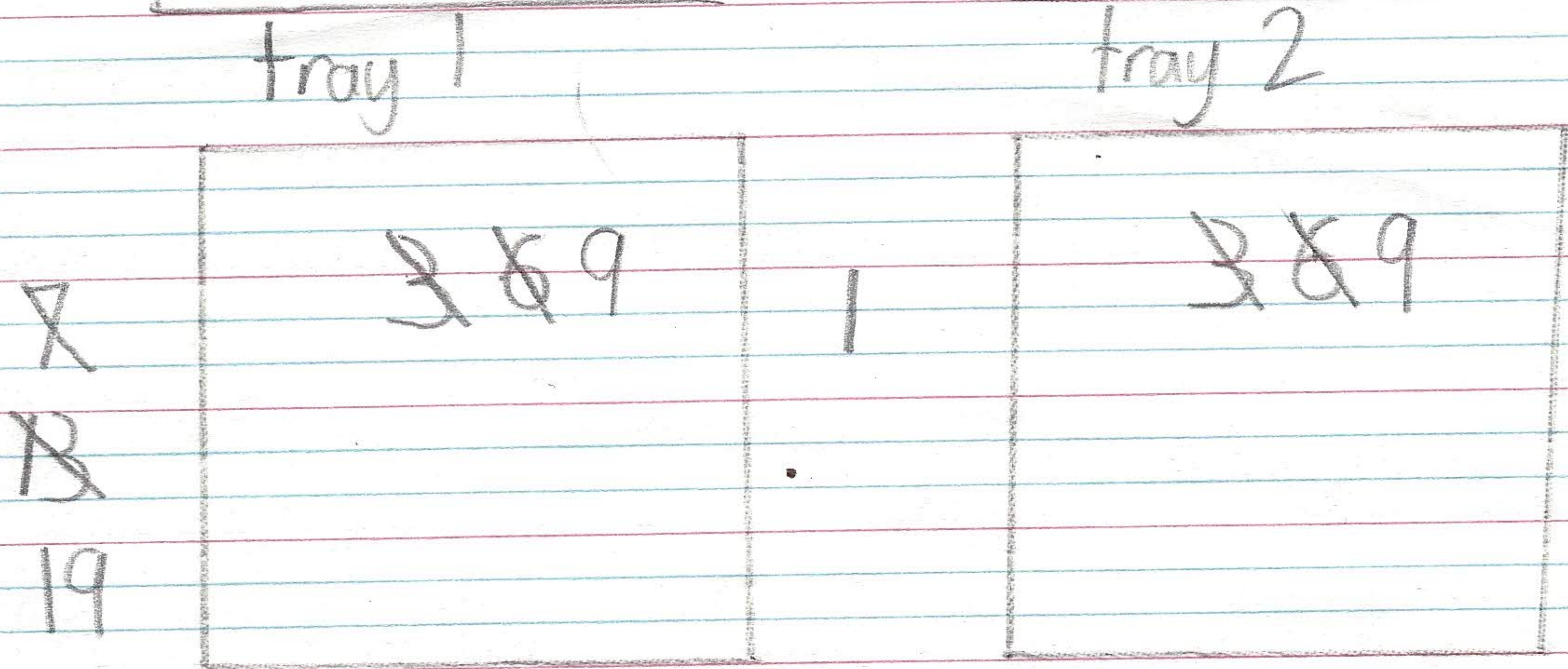
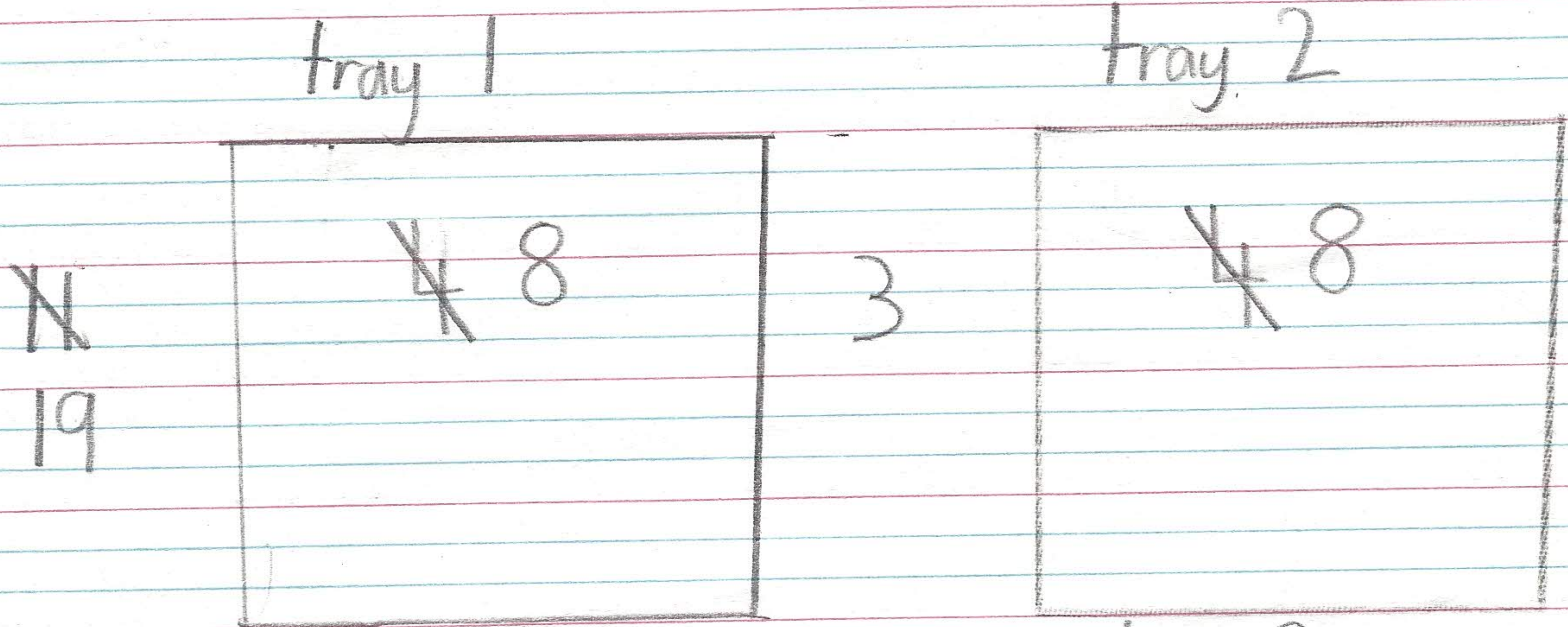
4

8

$$7 + 6 + 8 + 3 = 24$$

$$24 - 10 = 14$$

The fifth room: The Key is 19



There are 19 tarts altogether
when you count in threes and fours.