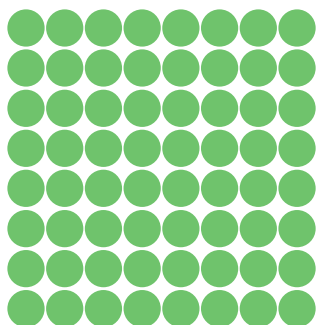


Square Numbers

1. Complete the number statements.



$$\underline{\quad}^2 = \underline{\quad}$$



$$\underline{\quad}^2 = \underline{\quad}$$

VF

4. Solve the following problems.

I think of a number.
I square it and subtract 19.
My answer is 45.
What was my number?

I think of another number.
I square it and subtract the square of
my first number.
My answer is 80.
What was my number?

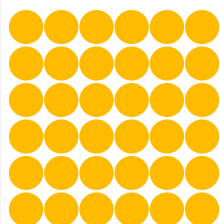
PS

2. Match the square numbers to the correct representations.

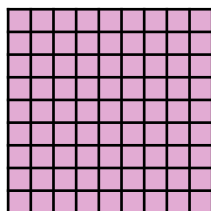
6^2

9^2

11^2



121



VF

5. Tanya says,



The sum of two consecutive square numbers is always an odd number.

Is Tanya correct? Convince me.

R

3. Complete the table below.

	3×3	9
	$\underline{\quad} \times \underline{\quad}$	25
7^2	$\underline{\quad} \times \underline{\quad}$	
	10×10	
	$\underline{\quad} \times \underline{\quad}$	144

VF

6. Rayyan found two square numbers that, when added together, total another square number.



He spilt ink on them, but he knows that one number was more than 50 and one was less than 50.

What two numbers did Rayyan add?

PS

Square Numbers

1. $4^2 = 16$; $8^2 = 64$
2. $6^2 = 36$; $9^2 = 81$; $11^2 = 121$
- 3.

3^2	3×3	9
5^2	5×5	25
7^2	7×7	49
10^2	10×10	100
12^2	12×12	144

4. 8, 12
5. Yes; the sum of two consecutive squares is always an odd number because odd numbers squared are odd and even numbers squared are even. The sum of an odd and even number is always odd.
6. $36 + 64 = 100$ or $6^2 + 8^2 = 10^2$