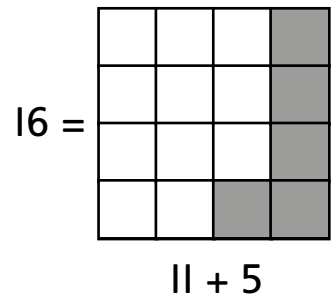


Deepen Activities

1 Lee says he can make every square number to 100 by adding two prime numbers. He shades squares to show how the prime numbers fit together.



- a) Is Lee correct? Draw all the pairs for square numbers to 100.
- b) What do you notice about the shapes that the prime numbers make? Why is this?

I can see more than one way to make some square numbers.



- 2
 - a) How many whole numbers less than 100 can you make using the numbers 1, 2, 3 and 4, without changing their order? You can add, subtract, multiply, divide and use brackets. For example, $12 + 34 = 46$.
 - b) Which numbers can you make if you include mixed numbers? For example, $1\frac{2}{3} + 4 = 4\frac{2}{3}$.

I will think about the order of operations!



- 3
 - a) Kate finds a square number that is a multiple of 2, 3 and 8. What could it be?
 - b) Mo works out 15 cubed. Find all the factors of his number.