

# Lesson Two

I can subtract 1s, 10s, 100s  
and 1000s

Problem Solving and Reasoning  
in Sequences

# Problem Solving

Ava thinks of a number.

I add 3,000 to it,  
subtract 40, add 7  
then subtract 200.  
My answer is  
5,629.



What number did she start with? Try working it out on paper or verbally with an adult.

Answer: 2862

How do we find the answer?

$$5,629 + 200 = 5,829$$

$$5,829 - 7 = 5,822$$

$$5,822 + 40 = 5,862$$

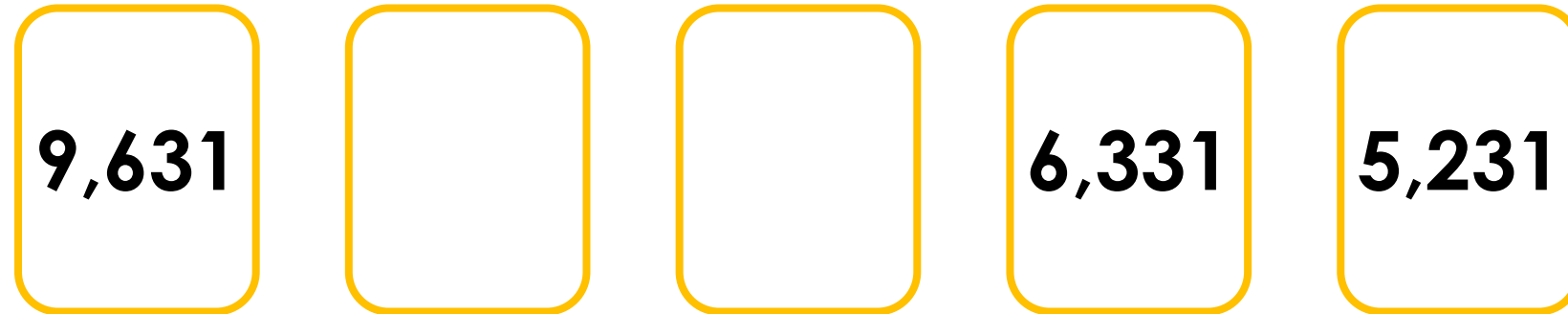
$$5,862 - 3,000 = 2,862$$

# Reasoning

Top tip:

Look at what is happening to each digit. What is the difference?

Complete the sequence.



What is the sequence decreasing by each time?  
Explain how you know.

*Answer:*

**9,631**

**8,531**

**7,431**

**6,331**

**5,231**

*The answer is...*

*The number decreased by 1100  
each time.*

Have a go at completing some of the reasoning and problem-solving questions on the activity sheet.

There is also an extra challenge which will require lots of thinking and concentration to complete. If you would like to complete it, challenge yourself and have a go at completing it.