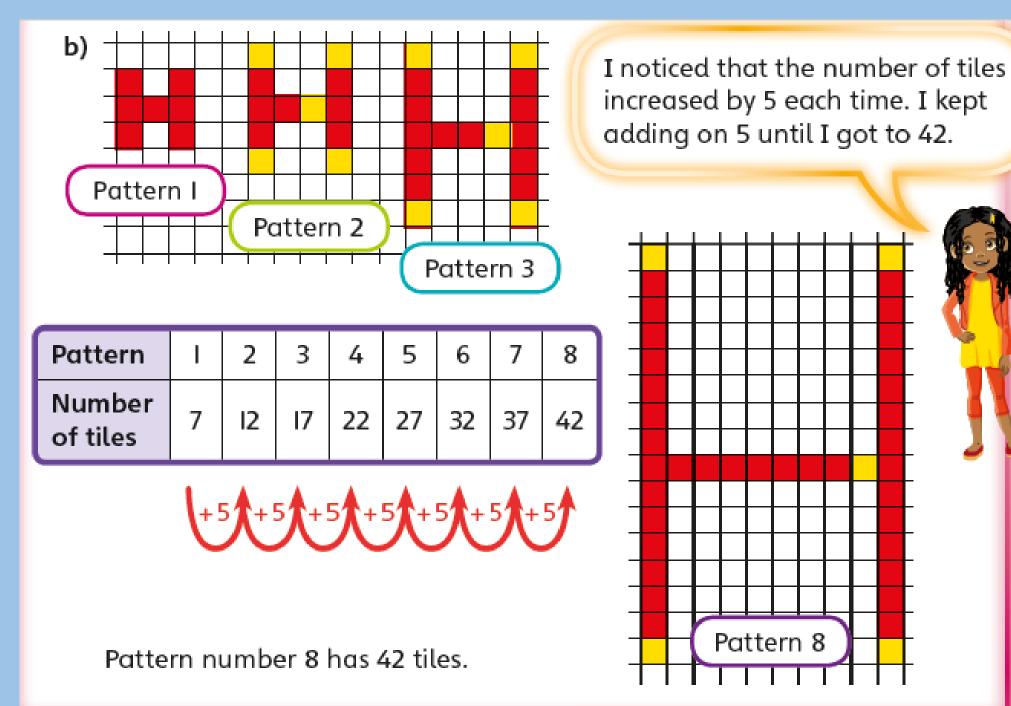
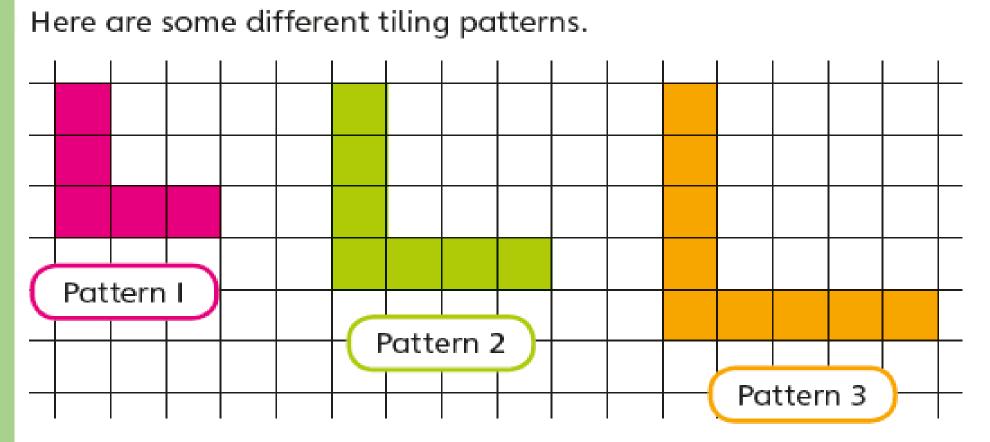


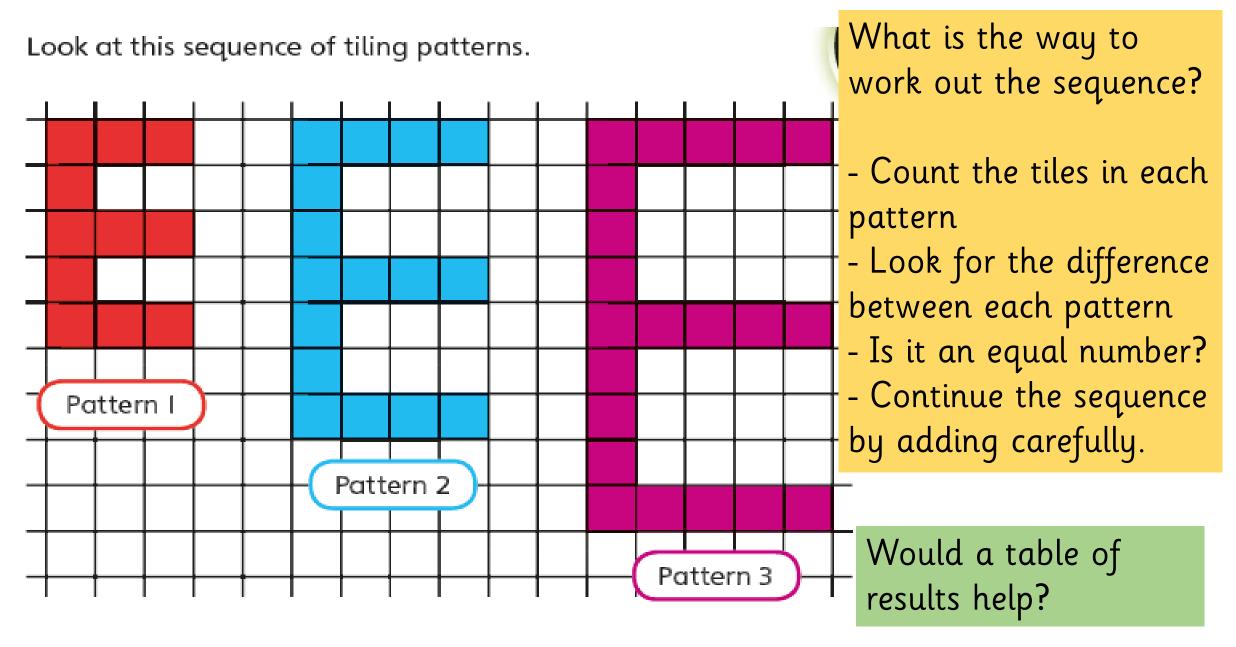
Olivia and Ebo will need 27 tiles to make pattern number 5.





- a) How many tiles are needed to make pattern number 5?
- b) Which pattern needs I5 tiles? Complete the table to help you.

Pattern	I	2	3	4	5		
Number of tiles							

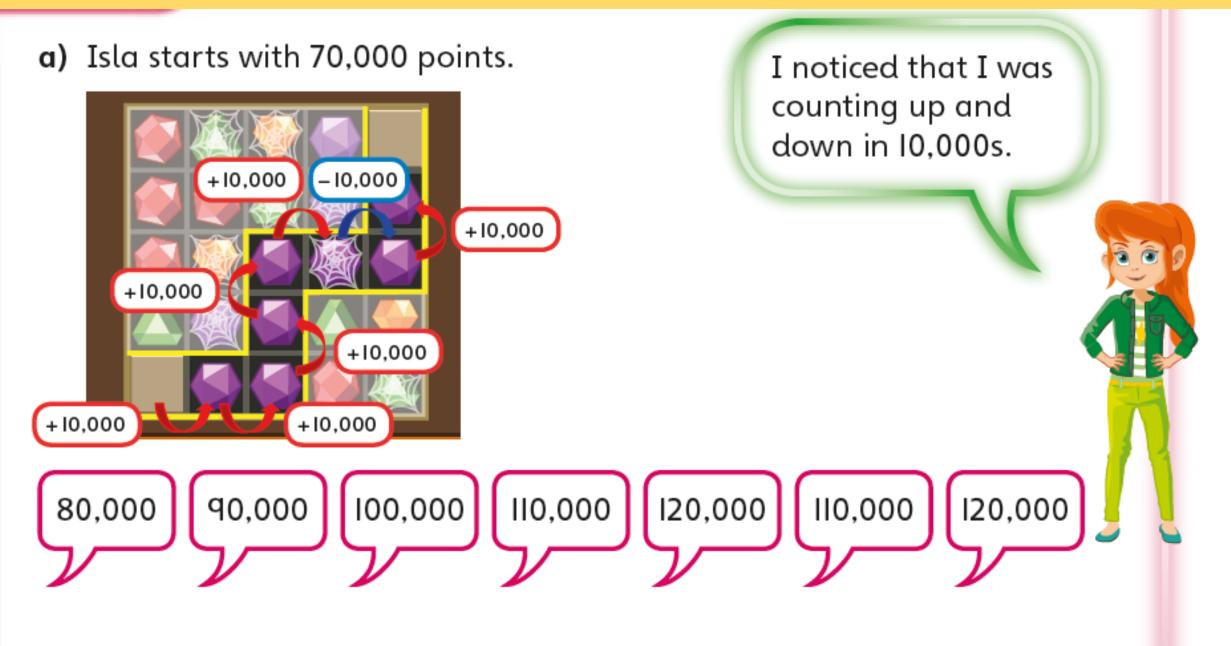


Which number pattern will be the first to have more than 50 tiles?

## **Jewel Hunt**



Isla and Reena are playing Jewel Hunt. Isla starts on 70,000 points. She takes the dotted path. Now follow the dotted path Level IO through the **Reena:** 230,000 grid. Isla: 70,000 What is the score when Isla reaches the finish?



When Isla reaches the finish her score is 120,000.

## **Jewel Hunt**

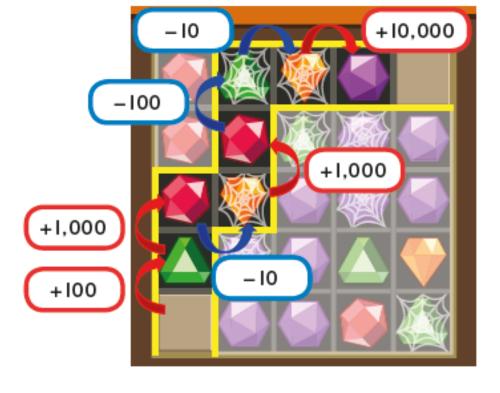


Level IO Reena: 230,000 Isla: 70,000

Reena takes the star path. She starts on 230,000 points.

What score does Reena have when she reaches the finish?

b) Reena starts with 230,000 points.

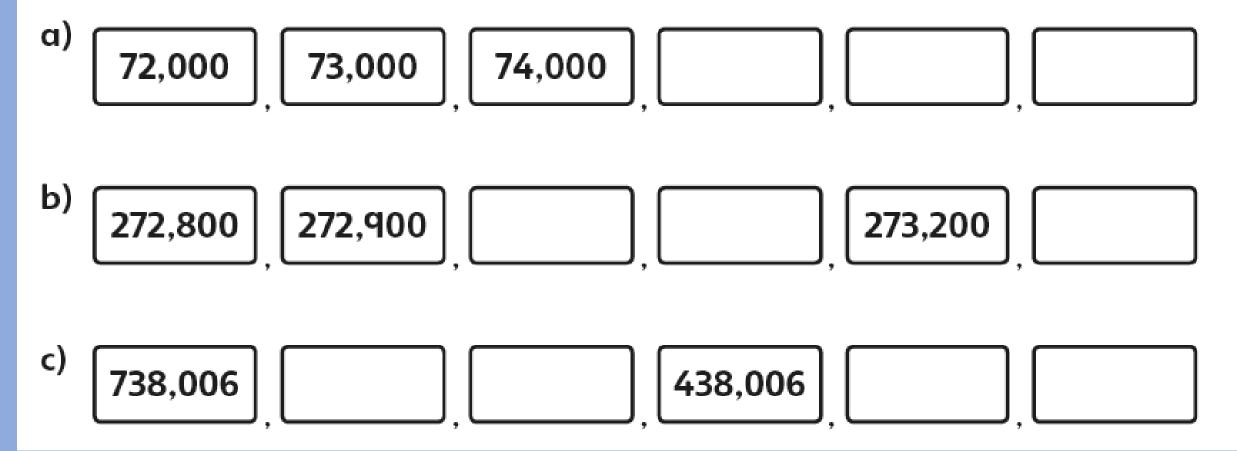


I made 230,000 from counters and added and removed counters as I went. Sometimes I had to exchange.



When Reena reaches the finish her score is 241,980.

Work out the missing numbers in each sequence.



Liam makes a sequence of numbers starting with 300

He subtracts 125 each time.

e.

Write the next two numbers in Liam's sequence.

The numbers in this sequence increase by 7 each time.

1 8 15 22 29

The sequence continues in the same way.

Will the number 777 be in the sequence? Circle **Yes** or **No**.



Explain how you know.