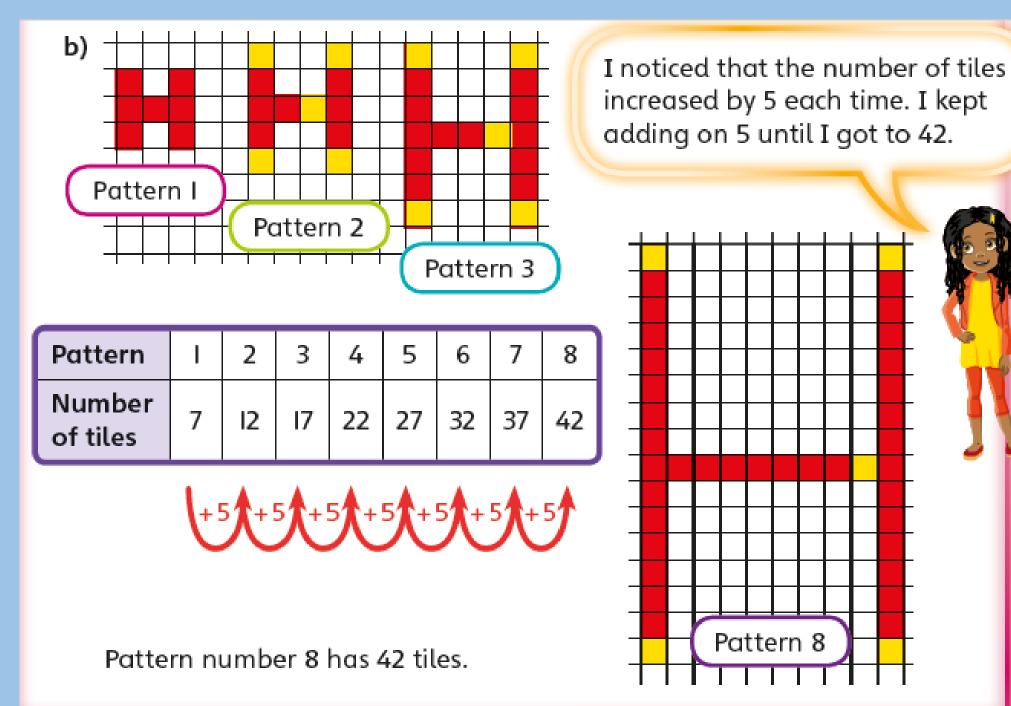
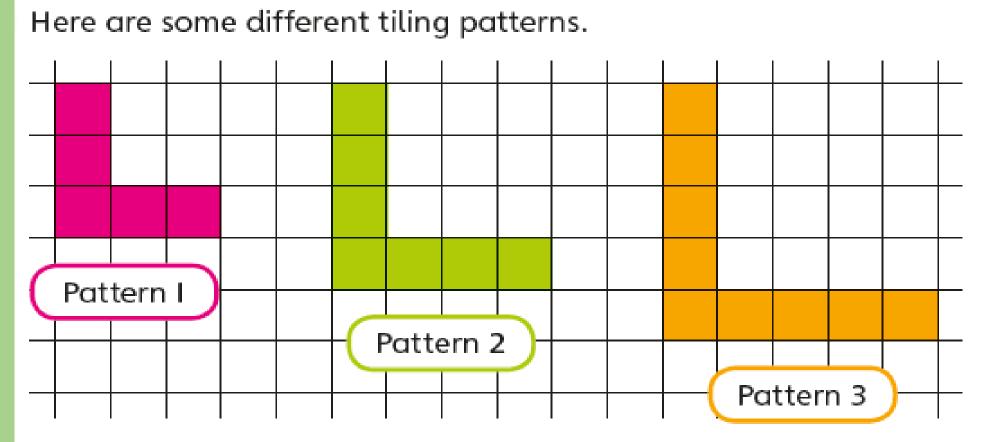


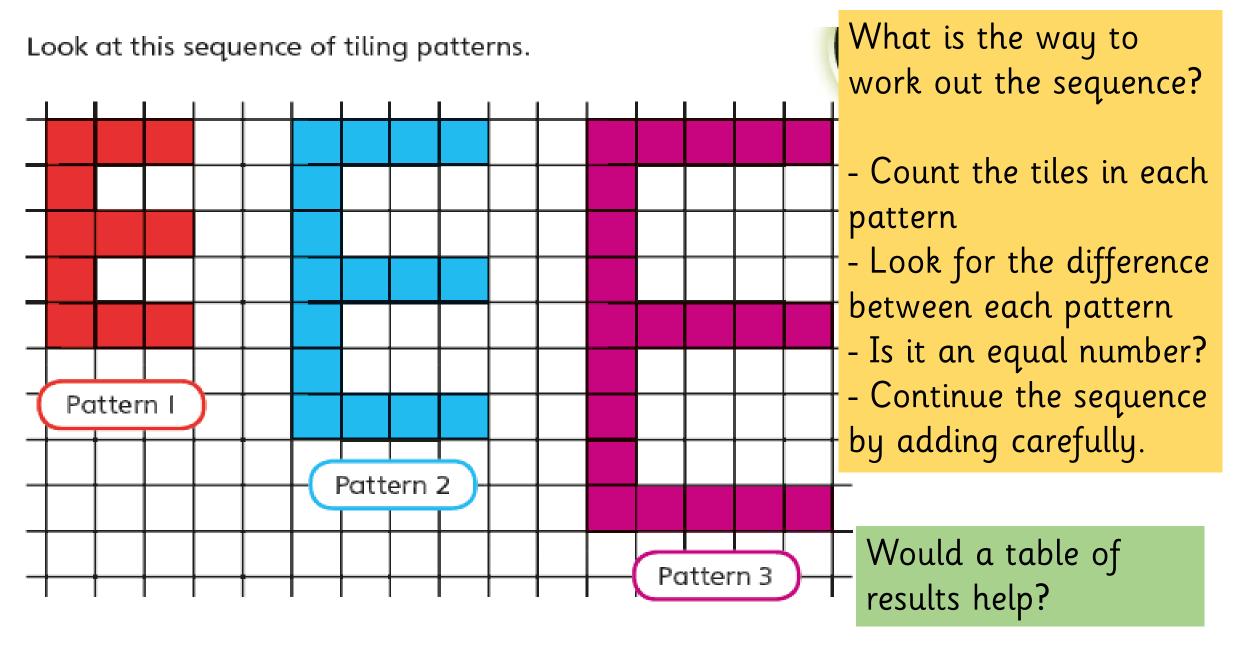
Olivia and Ebo will need 27 tiles to make pattern number 5.





- 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							

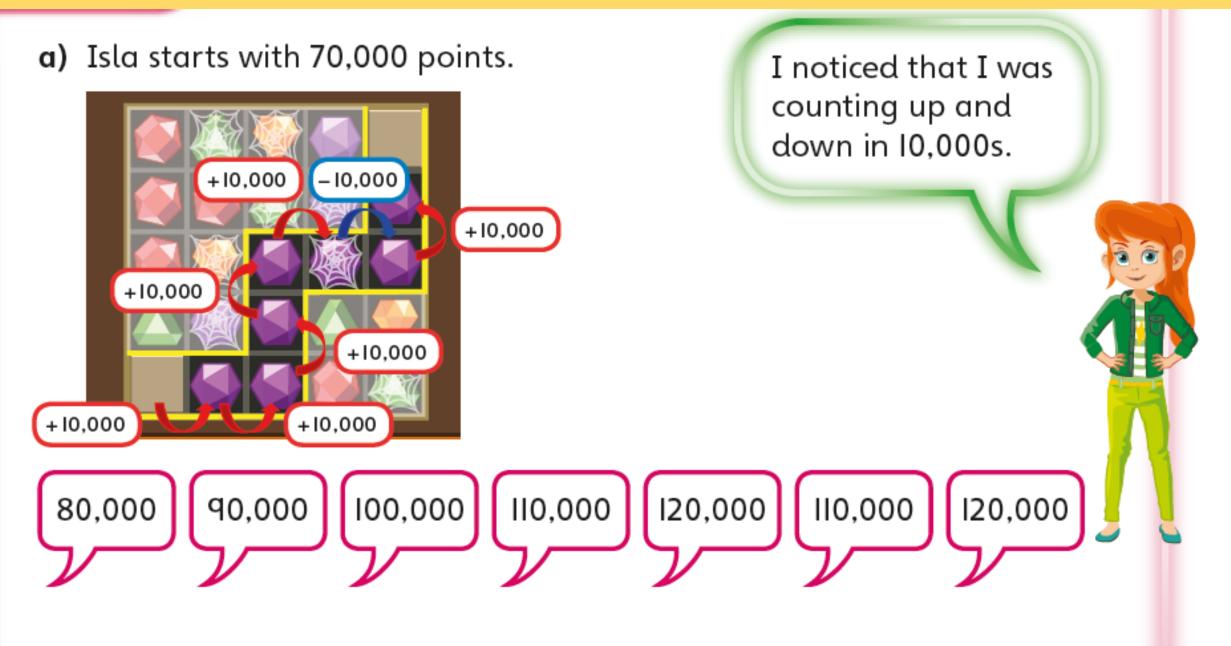


Which number pattern will be the first to have more than 50 tiles?

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

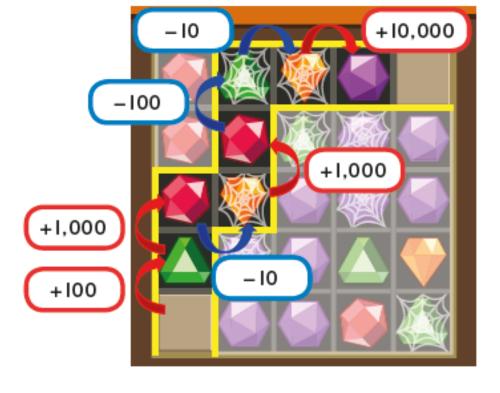


Level IO Reena: 230,000 Isla: 70,000

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.

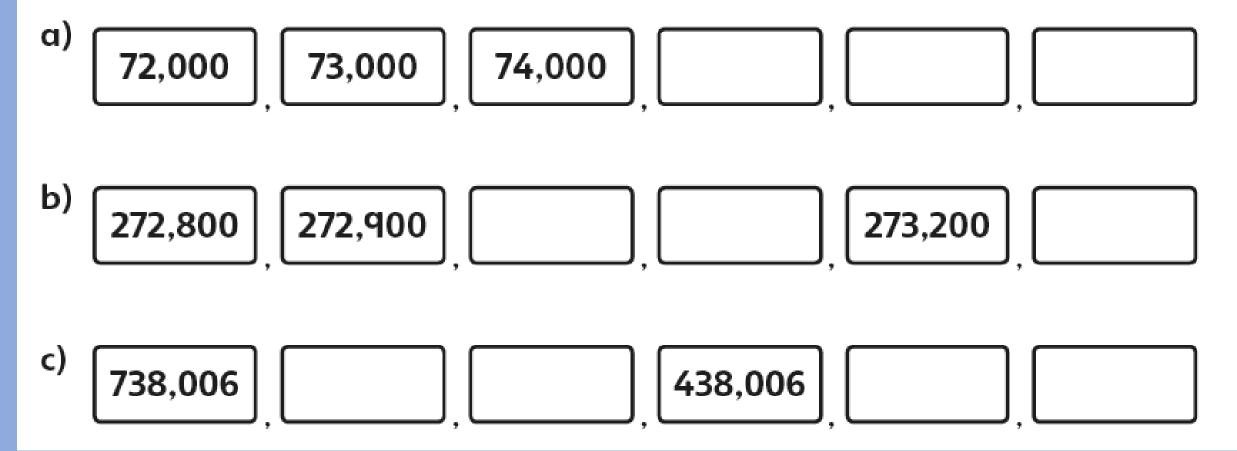


I made 230,000 from counters and added and removed counters as I went. Sometimes I had to exchange.



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.