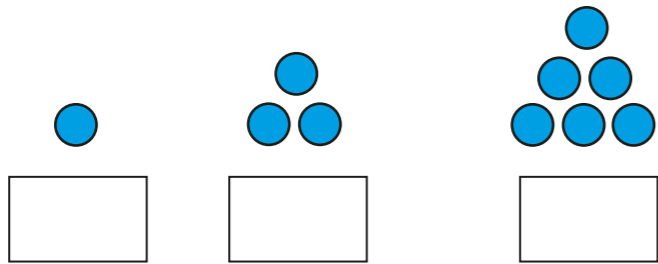


Predict and check next term(s)

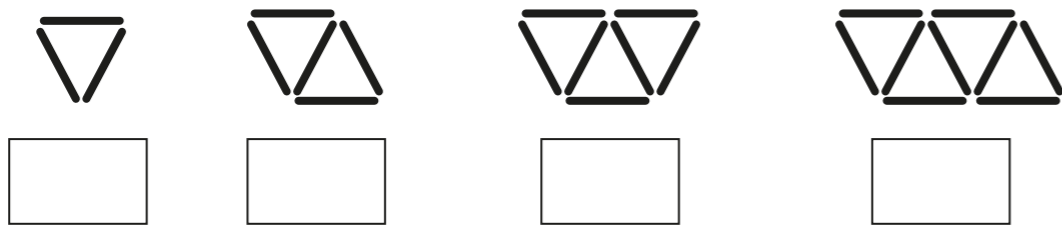
1 a) How many circles are in each term in this sequence?



b) How many circles will there be in the next term?

Draw the next term to check your answer.

2 a) How many lines are in each term in this sequence?



b) How many lines will there be in the next term?

c) How many lines will be needed for the 6th term?

Draw the terms to check your predictions.

3 How many triangles and lines will be needed to make the 5th term of this sequence?

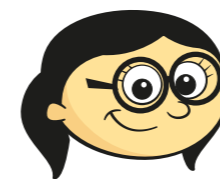


triangles

lines

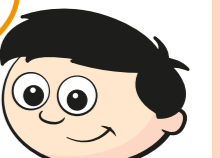
Draw the terms to check your predictions.

4 Annie and Dexter are predicting the next term in this sequence.



12 circles will be needed to make the next term.

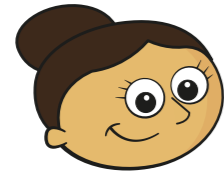
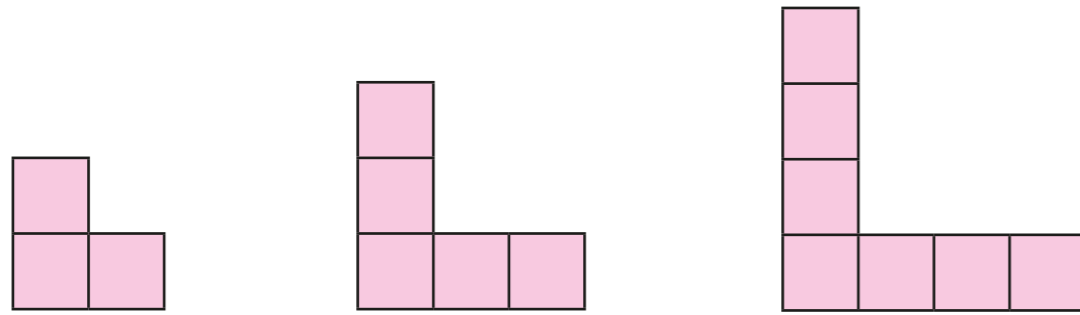
9 circles will be needed to make the next term.



a) Explain why they could both be correct.

b) How many terms do you need to be given to be certain of what the next term is? Explain your answer.

- 5 Dora is working out the number of squares in the 6th term of this sequence.



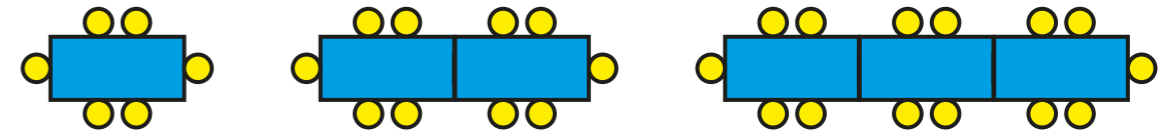
There will be 14 squares in the 6th diagram because there are 7 squares in the 3rd diagram. To get the number of squares in the 6th diagram you need to double 7

Is Dora correct?

Draw diagrams to support your answer.



- 6 a) How many rectangles are in each term in this sequence?



- b) How many rectangles will be needed for the 10th term?

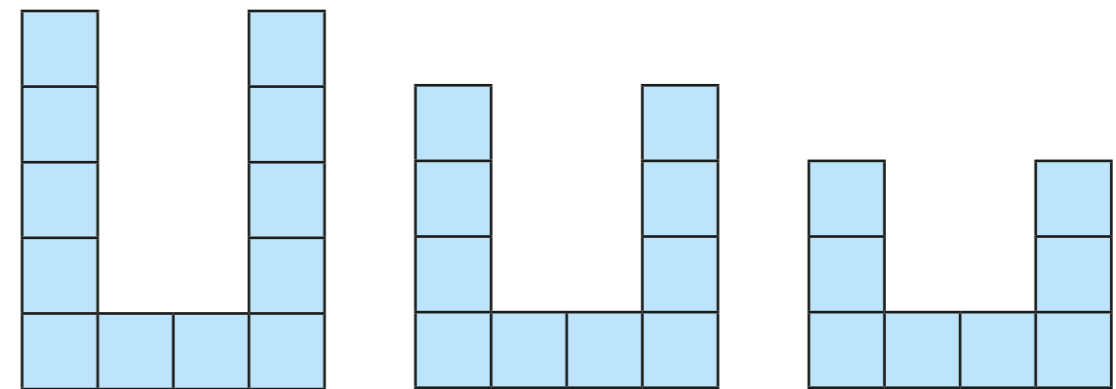
- c) How many circles are in each term in this sequence?

- d) How many circles will be needed for the 10th term?

- e) How many circles will be needed for the 100th term?



- 7 Jack says it is possible to draw the 6th term of this sequence.



Do you agree? Draw diagrams to support your answer.

