



Sequences

Questions

1

Sample A Foundation Non-Calc Paper 1

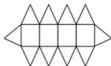
- 12 Here are the first three patterns in a sequence.
The patterns are made from triangles and rectangles.



pattern number 1



pattern number 2



pattern number 3

- (a) How many triangles are there in pattern number 7?

(2)

Charlie says

“There are 4 rectangles in pattern number 3 so there will be 8 rectangles in pattern number 6”

- (b) Is Charlie right?
Give a reason for your answer.

(1)

(Total for Question 12 is 3 marks)

Sample B Foundation Calc Paper 2

11 The first three terms of a number pattern are 1 2 4

Hester says the first five terms of this number pattern are 1 2 4 8 16

(a) Write down the rule Hester could have used to get the 4th and 5th terms.

(1)

(b) Write down the 6th term of Hester's number pattern.

(1)

Jack uses a different rule.

He says the first six terms of the number pattern are 1 2 4 7 11 16

(c) Write down the 7th and 8th terms of Jack's number pattern.

(1)

(Total for Question 11 is 3 marks)