Q1.

Here is a sequence of patterns made with grey square tiles and white square tiles.

pattern number
1

pattern number
2

pattern number
3

(a) In the space below, draw pattern number 4

(1)

(b) Find the total number of tiles in pattern number 20

....

(2)

(c) One of the shapes in the pattern is made from 102 squares.

What is the pattern number of this shape?

....

(2)

(Total for question is 5 marks)

11+ Entrance Examination

Mathematics

Name: ……………………………………………………………….

Time: 45 Minutes

Instructions:

- You **may not** use a calculator in this test.
- There are 15 questions on this test - try to answer all the questions.
- Write all your answers and working on the test paper – do not use any rough paper.
- Marks may be awarded for working.
- Check your work carefully.

   TOTAL: …… out of 60 marks