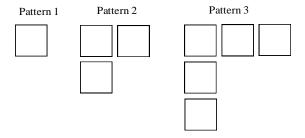


# **Grade 7 Maths Worksheet**

### **Diagrammatic patterns and number patterns**

#### **Questions:**

1. The pattern below shows blocks being arranged to form an L shape.



a) Complete the table below:

Input	Output
(pattern	(number of
number)	blocks)
1	
2	
3	
4	
5	
7	
12	

- b) Write down a rule that represents the number of blocks in the 100th pattern.
- c) Write down a general rule for the number of blocks per pattern.



# **Grade 7 Maths Worksheet**

#### Solution

1. a)

Input	Output
(pattern	(number of
number)	blocks)
1	1
2	3
3	5
4	7
5	9
7	13
12	23

- b) No of blocks = 2(100) 1
- c) No of blocks = 2(pattern number) 1

### **Appendix of Assignment Tools**

Number pattern
Input / Output
Generalised number