

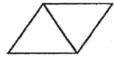
Name:	Date:
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P4 Problem Sum Worksheet

Topic: Number Pattern

Question 1

George made a pattern using toothpicks. The first 3 figures are shown below.





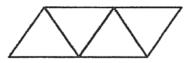


Figure 1

Figure 2

Figure 3

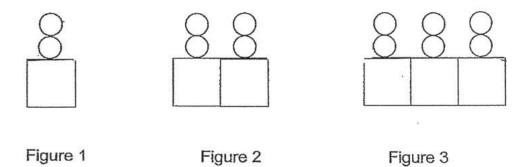
Figure	Number of toothpicks used
1	5
2	7
3	9
:	: : :

- (a) How many toothpicks did George use for Figure 10?
- (b) Which figure did George use 151 toothpicks to make?

Show your workings clearly below.

Question 2

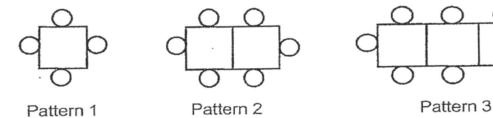
The pattern below is made up of identical squares and circles.



- (a) How many squares are there in Figure 4? [1 mark]
- (b) How many circles are there in Figure 6? [1 mark]
- (c) Which figure has a total of 72 squares and circles? [2 marks]

Question 3

Barney used circles and squares to make patterns as shown below.



- (a) How many circles were there in Pattern 102?
- (b) Barney made a pattern with 52 circles. How many squares were there in this pattern?