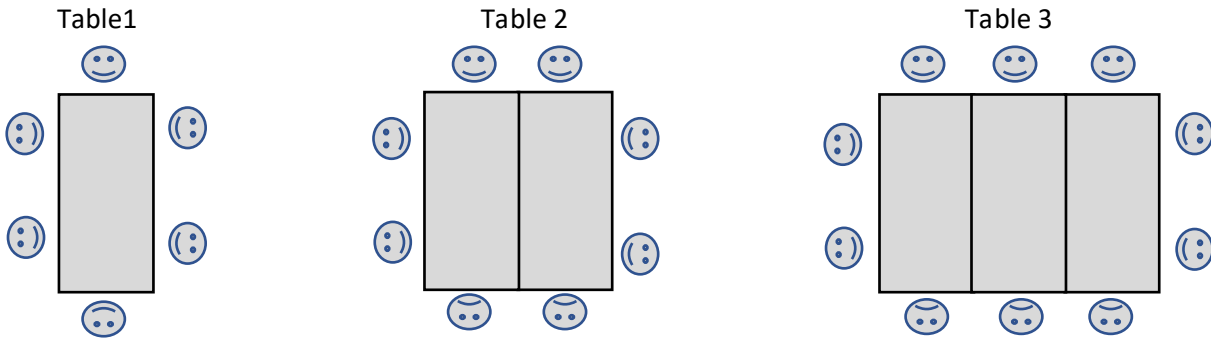


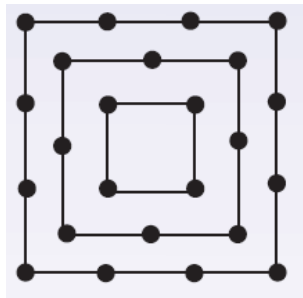
## INFORMAL ASSESSMENT

1. Study the seat plan below and answer the questions that follow.



- a) Describe the seat plan in words.
- b) What remains constant in the seat plan (does not change)?
- c) This is calculation plan:  
 Table 1 =  $2 \times 1 + 4$     Table 2 =  $2 \times 2 + 4$     Table 3 =  $2 \times 3 + 4$   
 (i) What does + 4 mean?    (ii) What does  $2 \times 1$ ,  $2 \times 2$ ,  $2 \times 3$  mean?
- d) How many people can be seated at table 5?
- e) How many people can be seated at table 12?
- f) How many people can be seated at table 20?
- g) How many tables do I need for 46 people?

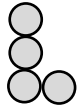
2a) Study the diagram below and complete the table.



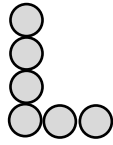
Square pattern	1	2	3	4	5	20
Number of matches						

- b) How many matches do you need for square pattern 10?
- c) How many matches do you need for square pattern 23?
- d) Describe the calculation plan?

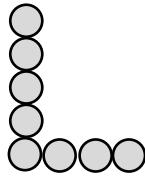
3. Peter uses beads to make the alphabet patterns.



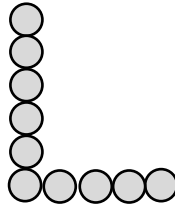
L 1



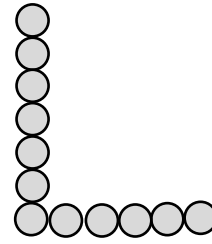
L 2



L 3



L 4



L 5

a) Describe L6 in words.

b) Describe L60 in words.

c) Write your plan as a flow diagram and calculate the number of beads in L6, L60 and L87?

### MEMORANDUM

1a) Each table can seat two people at the short ends. And 4 people can sit at the other two sides of the combined row of tables.

b) The 4 people at the 2 sides of the table.

c) Here is the calculation plan:

$$\text{Table 1} = \underline{2} \times \underline{1} + 4 \quad \text{Table 2} = \underline{2} \times \underline{2} + 4 \quad \text{Table 3} = \underline{2} \times \underline{3} + 4$$

(i) It is the 4 people sitting at the sides of the table.

(ii) The table number  $x$  by the number of people at the short ends.

d)  $2 \times 5 + 4 = 14$

e)  $2 \times 12 + 4 = 28$

f)  $2 \times 20 + 4 = 44$

g)  $(100 - 4) \div 2 = 48$

2a)

Square patterns	1	2	3	4	5	20
No of matches	4	8	12	16	20	80

b)  $10 \times 4 = 40$

c)  $23 \times 4 = 92$

d) number of pattern  $\times 4$

3a) L6: 2 groups of 6 beads plus 2 more

b) L60: 2 groups of 60 beads plus 2 more

3c)

