

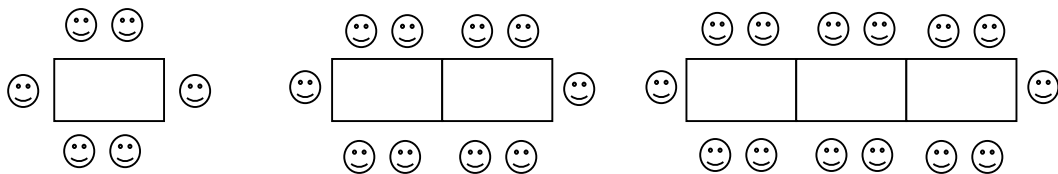
Sequences Homework

1. Write down the next two numbers in each of these sequences:

- a) 1, 4, 8, 13, 19..... b) 25, 23, 19, 13, 5.....
 c) 48, 24, 12, 6, 3 d) 3, 8, 6, 11, 9.....

2. Ruth the restaurant owner is considering the number of tables she will need to seat her customers.

She draws up some plans which are shown below.



- 1 Table 2 Tables 3 Tables
 6 customers 10 customers 14 customers

a) Copy the table below and fill in the blank spaces.

Tables(T)	1	2	3	4		8
Customers(C)	6	10	14			

- b) Find an equation that allows you to calculate the number of customers if you are told the amount of tables. Write it in form $C =$ (where C is the number of customers)
- c) Use your equation to calculate
- (i) how many customers you would have round 15 tables.
 - (ii) how many tables are required for 66 customers.