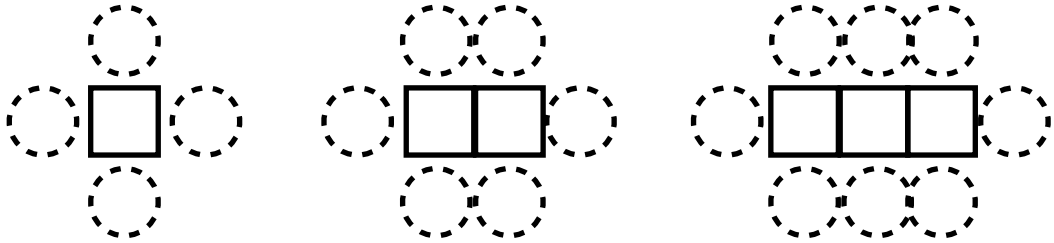
1 A cafe organises square tables and circular chairs like the diagrams below.



(a) Complete the table below:

Tables	Chairs Needed
1	
2	
3	
4	
5	

(b) Complete the formula:

Chairs Needed = _____ x Tables - _____

(c) Use the formula to find the number of chairs required for:

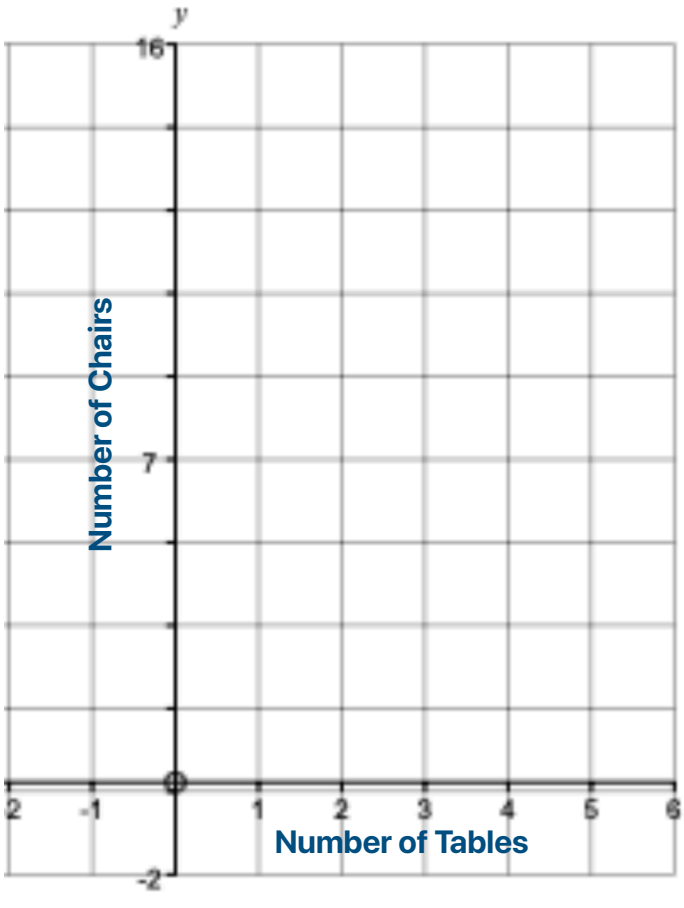
(i) 8 tables

(ii) 12 tables

(iii) 1000 tables

(d) Use the formula to find the number of chairs required for 0 tables. Does this make sense in the context?

(e) Use your table to plot points on the set of axes.



(f) Join up the points with a straight line.

(g) Extend your line in both directions. Can you spot the answer to question d on the graph?

(h) Will a situation ever arise which requires 41 tables?