

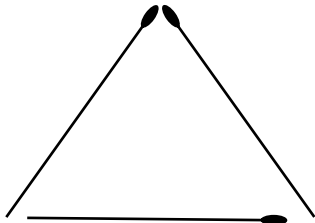
Navigate to the top of second column and enter the column name: Matches

A	B	C	D
triangles	matches		
	matches		
1			
2			
3			
4			
5			

Type in the first value for the Triangle column: 1
This equates to one triangle.

A	B	C	D
triangles	matches		
	matches		
1			
2			
3			
4			
5			

- Create a triangle with the minimum number of icy-pole sticks possible. Enter the number of matches required in the “Matches” column.



An example is shown here.

Type in the first value for the Matches column: 1
This equates to one triangle constructed from three matches
 Enter the second value in the triangles column, "2".

A	triangles	B	matches	C	D
1	1	3			
2	2				
3					
4					
5					

- Create a second triangle, of equal size, with the minimum number of icy-pole sticks possible. Enter this quantity in the "Matches" column.
- Repeat this process until you have constructed 5 triangles, recording the number of matches for each group of triangles.

Once you have entered all your data, your spreadsheet should look like the one opposite.

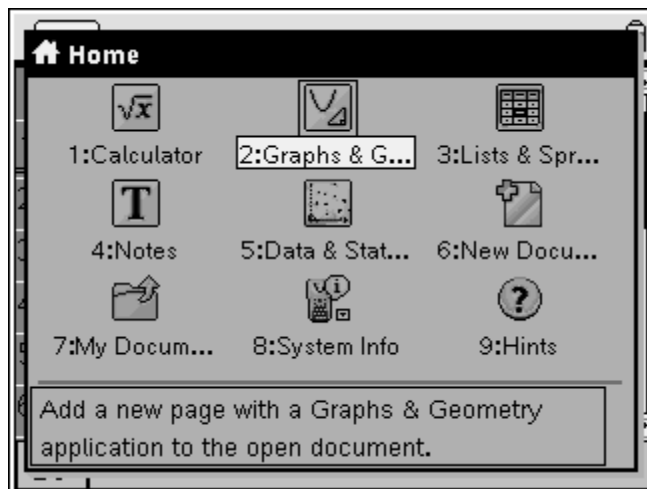
Note:

The values for the number of matches have been crossed out here. You need to ensure you have your values entered according to the modelling task.

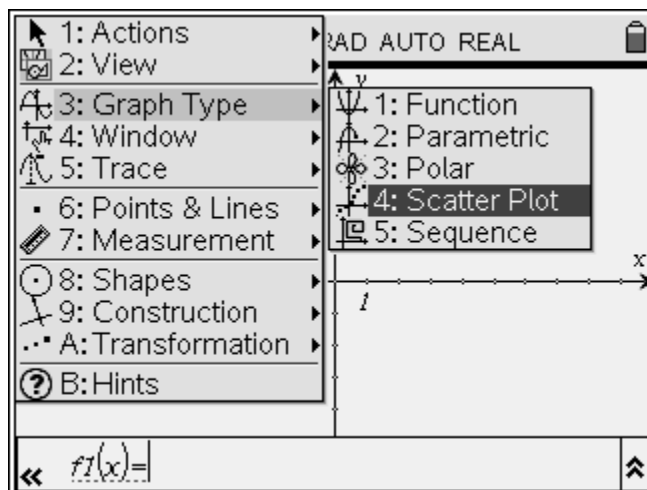
A	triangles	B	matches	C	D
1	1	3			
2	2	xxxxxxx...			
3	3	xxxxxxx...			
4	4	xxxxxxx...			
5	5	xxxxxxx...			

The next step is to represent the relationship between matches and triangles graphically.

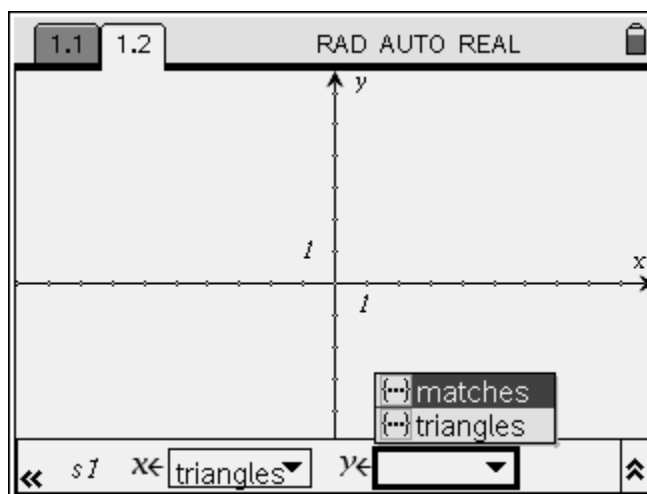
Press the HOME key and insert a Graphs & Geometry page .



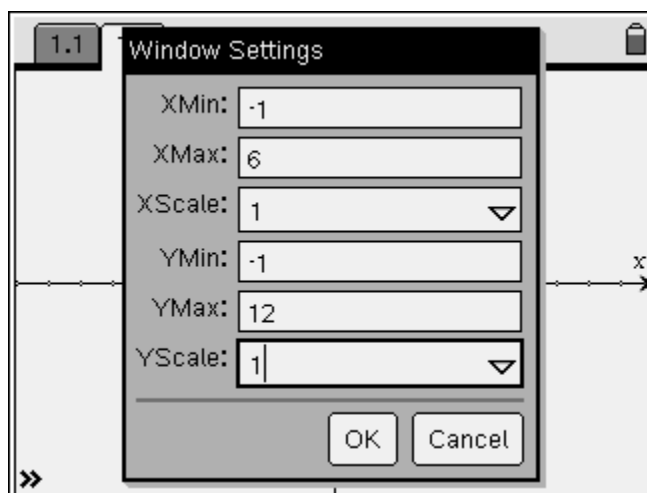
Change the graph type to a **Scatter Plot**.



Select the drop down lists for the 'x' and 'y' axis.
 The number of triangles will be plotted on the x axis.
 The number of matches will be plotted on the y axis.



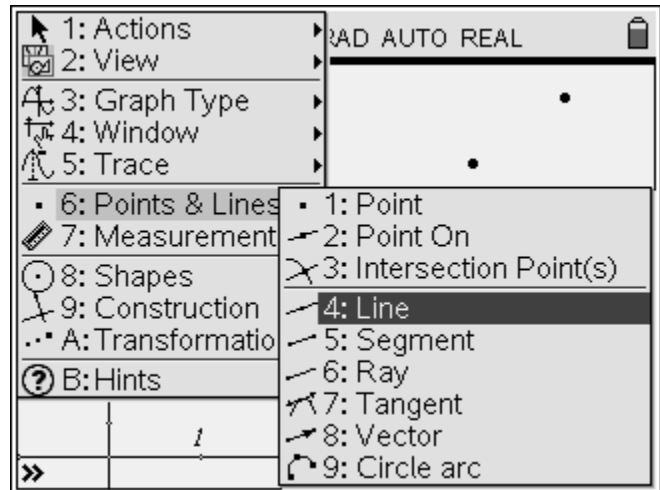
Use the **menu** to change the **window settings**.
 Match the settings shown opposite.



Question.

1. Which one of the following best describes the relationship:
 - a. Linear (straight line)
 - b. Curved
 - c. No relationship (randomly located points)

Use the **menu** to draw a **line** through the points.



When drawing the line, make sure the line is placed on two of the points.

Notice that the line tool says "point on".

