Electromagnets

Joe made an electromagnet. He did this by coiling some insulated wire around a bar made of soft iron. He connected the two ends of the wire to the DC terminals of a power supply. When Joe turned the power supply on he found he could pick up some paper clips. He decided to do an investigation. He predicted what would happen.



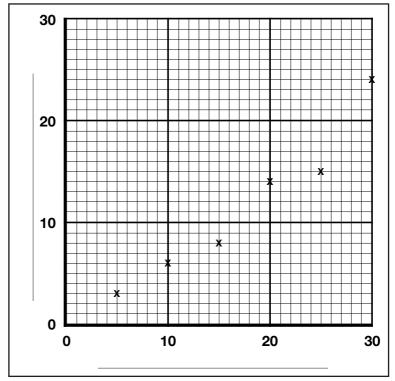
Here are Joe's results:

Number of coils	Number of paper clips picked up	
5	3	
10	6	
15	8	
20	14	
25	15	
30	24	

- Add labels to each axis on the graph.
- Joe thinks one of his results is anomalous (odd). On the graph, draw a ring around the result you think is odd.
- Draw a line of best fit through the points Joe has plotted.

 Miss out the odd result.

Joe's results are plotted as a line graph below:



4	Complete	this	conclusion:

As the number of coils increases, the number of paper clips picked up _____.

This means that _____ the number of coils makes the electromagnet

Was Joe's prediction correct?