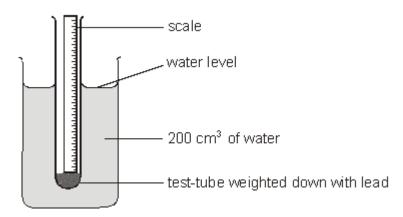
Ocean's deep end of unit test - skill section

Abi investigated how adding salt to water affects the way an object floats.

She used the apparatus below.



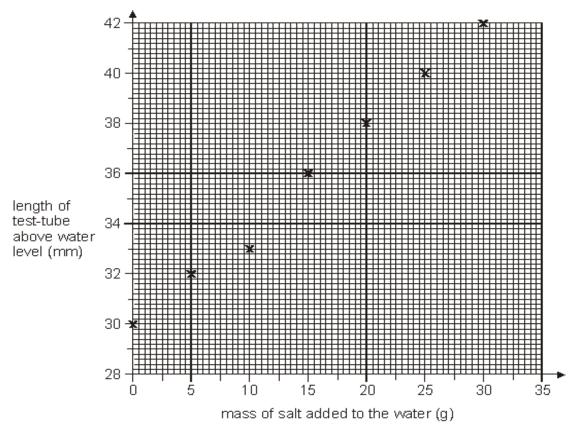
She used a scale inside a test-tube to measure the length of the test-tube above the water level.

(a) What factor did Abi change as she carried out her investigation (the independent variable)?

.....

1 mark

(b) Abi plotted her results on a graph.



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	(i) On the graph, circle the result which does not fit the pattern.				
	(ii) Draw a line of best fit on the graph.				
	(iil) Suggest one reason for this result.				
					3 marks
(c)	Abi said she should repeat the measurement that does not fit the pattern. Robert said there is no need to repeat this measurement.				
	Who do you agree with? Tick one box.				
	Albi Ro	bbert			
	Explain your answer.				
					1 mark
(d)	Abi and Robert wrote the conclusions listed	d below.			
	Look at the graph of their results and tick we false or whether you cannot tell.	vhether each	conclusion	is true or	
	conclusions	true	false	cannot tell	
The more salt added, the higher the test-tube floats in the water.					
The length of the test-tube is 8 cm.					
When 10 g of salt is added, the length of the test-tube above the water will be 34 mm.					
	bling the amount of salt doubles the pth of the test-tube above the water.				
		_			2 marks maximum 7 marks