		Ratio, proportion and rates of change
So	cale diagrams and maps	
1	The scale on a map is $1:50000$. Two towns are 10cm apart on the map. What is their actual distance apart? Give your answer in km. (2 marks, \star)	NAILIT! When changing a map scale to a ratio, make sure that the two quantities in the ratio are changed into the same units. For example, 1 cm:500m = 1 cm:50000cm
2	A map is drawn to a scale of 1:40000. Find the actual length in km, of a straight road of length (*) a 2.3 cm (1 mark) b 3mm (1 mark)	= 1:50000. gth, Multiply each of these lengths by 40 000 and then change the units.
		[Total: 2 marks]
(3)	On a scale drawing of a garden, the length of a path whos actual distance is 40 m is 5 cm. Find the scale of the drawi the form 1: n where n is an integer. (3 marks, **)	
4	The map shows a port and a gas rig. The actual distance from the port to the gas	How would this affect the answer you get in Question 4?
	rig is 12 km.	
	By taking a measurement from the map, work out the scale of the map.	gas rig X
	Give your answer in the form $1:n$ where n is an integer. (3 marks, $\star\star$)	port