Converse of Pythagoras					
YEAR	QUESTION	PAPER	YEAR PA		
2014	The diagram below shows the position of three towns. Lowtown is due west of Midtown. The distance from Lowtown to Midtown is 75 kilometres. Midtown to Hightown is 110 kilometres. Hightown Hightown 85 km 110 km Lowtown 75 km Midtown	2	2014		
	Justify your answer.				
2017	Triangles A and B are shown below. 8 cm	2	2017		
	8 cm A 7 cm 7 cm B 19 cm A 16 cm 16				

2018	1	A square based pyramid is shown in the diagram below.		
		6 cm		
		The square base has length 6 centimetres.		
		The volume is 138 cubic centimetres. Calculate the height of the pyramid.	3	
		catedate the height of the pyramia.	J	
2018	2	Chris wants to store his umbrella in a locker. The locker is a cuboid with internal dimensions of length 40 centimetres, breadth 40 centimetres and height 70 centimetres.		
		The umbrella is 85 centimetres long. He thinks it will fit into the locker from corner P to corner M. Is he correct? Justify your answer.	4	

