A2	Calculator Paper	
1	Dylan's annual salary is £28 400.	
	He expects his salary to increase steadily by $2.3\%$ per anum.	
	What will Dylan's salary be after 3 years.	
	Give your answer to the nearest pound.	3
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2	A rugby team scored the following points in a series of seven matches	
	13, 7, 0, 9, 7, 8, 5	
	(a) Calculate the mean and standard deviation for this data sample.	4
	The team appoint a new coach and their next season produces a mean of $16$ points and a standard deviation of $3.25$ .	
	(b) Make two comparisons about the performance of the team under the new coach.	2
3	B 1100 miles M 950 miles P Calculate the size of angle BPM	3
4	Change the subject of the formula $r = ax^2 + c$ to $x$	3
5	Solving the equation $5 \sin x + 1 = 3$ , for $0 \le x \le 360$	3
6	A cube of wax with a side of 7 centimetres is melted down. This wax is used to make a cone with a radius of 5 centimetres. Calculate the height of this cone. <b>Give your answer correct to 2 significant figures.</b>	3



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