## m7 =11 days to go!

10	(a)	Write the binary number 1101 as a decimal number.		
			Answer [1]	
	(b)	Write the decin	nal number 31 as a binary number.	
			Answer [1]	
		9	Mark writes out the terms of the sequence with $n$ th term rule $3n + 5$ Sean writes out the terms of the sequence with $n$ th term rule $5n - 3$ Which term number has the same value for both sequences?	
			Answer	[4]
W	/rite	as a fraction. <b>5</b>	-3	
			(1)	

Draw the locus of all points which are equidistant from points A and B.

A<sub>x</sub>

В

(2)

Alex and Thomas share 30 sweets. They divide them in the ratio 3:2.

How many sweets does Thomas have?

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