Look at these statements. Decide if each one is always, sometimes or never true. Explain your reasoning for each statement.



Always, sometimes, never?

	a) A number has an even number of factors.		
	b) Pairs of even numbers have more comm	non factors than pairs of odd numb	ers.
ι)		The lowest common multiple of tv is always the product of those tw	
			Levi
2)	For each set of common multiples below, fi a) 12, 24 and 36 c)		
		10, 20 and 30	f) 36, 72 and 108

1)	Who do you agree with? Explain your reasoning and provide examples.	I think there are more prime numbers between 1 and 50. I think there are more prime numbers between 50 and 100.
2)	Do you agree with Michael's statement? Explain your reasoning?	All prime numbers are odd, but not all odd numbers are prime.
3)	Arthur sets a challenge for his friend Kenneth. Is Kenneth correct? Explain your reasoning.	I am thinking of a number. It is greater than 40. It is less than 60. It is a prime number. The sum of its digits is an even number. How many possibilities are there for what the number could be? Arthur There are two possibilities. Kenneth