GCSE Exam Questions Primes, Odds and Evens

Question 1. (AQA June 2004 Intermediate Paper 2 Calculator OK)				
(a) k is an even number.	(b) The letters a and b represent			
Jo says that $\frac{1}{2}k+1$ is always even.	prime numbers.			
Jo says that $\frac{\pi}{2}^{\kappa+1}$ is always even.	Give an example to show that a + b is			
Give an example to show that Jo is	not always an even number.			
wrong.	**************************************			
in ong.				
[1 mark]	[1 mark]			
Question 2. (AQA June 2006 Intermediate Paper 2 Calculator OK)				
Hassan says				
A				
When you square a positive number the answer				
is always bigger th	an the original number.			
A .				
For example				
	SERVICE OF SERVICE OF SERVICE OF SERVICE OF			
	6.25 is bigger than 2.5			
Find an example to show that Hassan is wrong.				
You must show your working.				
	fo			
0	[2 marks]			
Question 3. (AQA June 2003 Intermediate Paper 1 NO Calculator)				
p is an odd number. Explain why p²+1 is always an even number.				
Explain why p++1 is aways an even number.				
	[2 marks]			
Question 4. (AQA June 2004 Intermediate Paper 1 NO Calculator)				
Tom, Sam and Matt are counting drum	How many beats is it before Tom, Sam			
beat.				
Down.				
Tom hits a snare drum every 2 heats	and Matt next hit their drums at the			
Tom hits a snare drum every 2 beats. Sam hits a kettle drum every 5 beats.	and Matt next hit their drums at the			
Sam hits a kettle drum every 5 beats.	and Matt next hit their drums at the			
	and Matt next hit their drums at the			
Sam hits a kettle drum every 5 beats. Matt hits a bass drum every 8 beats.	and Matt next hit their drums at the			
Sam hits a kettle drum every 5 beats.	and Matt next hit their drums at the			

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Question 5. (AQA November 2004 Intermediate Paper 2 Calculator OK)				
P is a prime number.			1	
Q is an odd number.				
	following is a	lways odd or always even or c	ould be	
either odd or even.				
Tick the appropriate box.				
(a) P(Q+1)			-	
Always odd	Always even	Could be either		
	,	odd or even		
			(1 mark)	
(b) Q - P				
Always odd	Always even	Could be either		
ramay s out	rumayseren	odd or even		
			(1 mark)	
Question 6. (AQA June 2003 Intermediate Paper 1 NO Calculator)				
(a) Work out the value of	700 Intermedit	(b) a and b are prime number	2,	
57 ÷ 54		$ab^3 = 54$	ž.	
) ÷)				
		Find the values of a and b.		
	[2 marks]		[2 marks]	
(c) Find the Highest Common Factor (HCF) of 54 and 135.				
			N. 177 ASSAULT	
			[2 marks]	
Question 7. (AQA June 2005 Intermediate Paper 1 NO Calculator)				
(a) Write 18 as the product of its		(b) What is the least common multiple		
prime factors.		(LCM) of 12 and 18?		
	100		50 00	
	[2 marks]		[1 mark]	
			100	