Non-Calculator

Q 1	Write 36 as a product of prime factors.		
	Give your answer in index form.		
	erre year anewer in maex renni.		
	Answer _		 (Total 3 marks
			•
Q 2			
	Diaries are sold in boxes of 12 Pencils are sold in boxes of 10		
	Rulers are sold in boxes of 6		
	A teacher wants to buy the same number	er of diaries, pencils and rulers.	
	Work out the smallest number of boxes	of each item he could buy.	
			boxes of diaries
			_boxes of pencils
			have of miles
			boxes of rulers (Total 3 marks
Q 3		of C	
	Circle the number that is not a multiple of	01 0	
	24 76	108	144
			(Total 1 mark

Page 1 of 5

write 30 as a product of	prime factors.			
	•			
	Answer			 tal 2 marks)
			(10	iai 2 marko,
Q 5.				
Circle all the numbers th	nat have 11 as a facto	r.		
101	400	420	422	
121	122	132	133	
			(Te	otal 1 mark)
Q6 .				
Which one of these num Circle your answer.	bers is a multiple of 1	2?		
Officie your answer.				
72	74	76	78	
			(T ₁	otal 1 mark)
`alaulatar				
<u>Calculator</u>				
77				
Q7. Beth uses these four ca	rds to make 4-digit nu	mbers		
Dotti doco tiloco logi da	and to make I digit ha			
2	4	5	8	
How many different 4-d	igit numbers can she	make that are grea	iter than 8000?	

Page 2 of 5

Answer _____

Q4.

(Total 2 marks)

Q8					
	Write 140 as a product of pr	rime numbers in i	ndex form.		
		Answer			(Total 3 marks)
00					
Q9	• Write 225 as the product of	its prime factors.			
		A			
		Answer			(Total 2 marks)
Q1	0.				
	Which of these numbers is	one more than a	multiple of 5?		
	Circle your answer.				
	15	19	26	30	(Total 1 mark)
					, ,
Q1	1. Which of these numbers ha	s exactly three fa	actors?		
	Circle your answer.				
	3	4	5	6	
					(Total 1 mark)

Q12. Circl	e the multiple of both	8 and 12			
	4	32	72	108	
					(Total 1 mark
Q13.					
Writt	en as the product of	its prime factors			
		672 = 3	$2^5 \times 3 \times 7$		
(a)	Write 252 as the pr	oduct of its prime f	actors.		
		Answer			
					(2
(b)	Work out the value	of the highest com	nmon factor of 672	and 252	
		Answer			
					(1 (Total 3 marks
Q14.					
	t is the largest two-di e your answer.	git prime number?			
	93	95	97	99	
					(Total 1 mark

Page 4 of 5

Q15.	
Write down all the factors of 18	
Answer	
	(Total 2 marks)
Q16.	
Write 280 as a product of its prime factors.	
Answer	
	(Total 2 marks)