HCF, LCM and Products of Prime Factors

1.	Mr T	Y Parrot squawks every 12 seconds. Toad croaks every 21 seconds. Y both make a noise at the same time.		
	After	r how many seconds will they next make a nois	se at the same time?	
		Answer	seconds (Total 2 man	rks)
2.	(a)	Express 36 as a product of its prime factors.		
			Answer	(3)
	(b)	Find the Highest Common Factor (HCF) of 3	6 and 60.	
			Answer	/ - \

(Total 5 marks)

36 ex	expressed as a product of its prime factors is 2^2	$\times 3^2$	
(a)	Express 45 as a product of its prime factors. Write your answer in index form.		
(b)	What is the Highest Common Factor (HCF)	Answerof 36 and 45?	(3)
(c)	What is the Least Common Multiple (LCM)	Answer	(1)
		Answer(Total 5 mar	(1) rks)

3.

4.	(a)	Express 144 as the product of its prime factors. Write your answer in index form.
		Answer(3)
	(b)	Find the Highest Common Factor (HCF) of 60 and 144.
		Answer
5.	(a)	Express 108 as a product of its prime factors. Give your answer in index form.
		Answer
	(b)	(3) Find the Highest Common Factor (HCF) of 108 and 72.
		Answer
		(2) (Total 5 marks)

4.

5.	(a)	Express 60 as a product of its prime factors. Give your answer in index form.
		Answer(3)
	(b)	Find the Highest Common Factor (HCF) of 120 and 32.
		Answer
7.	Wher	a written as the product of prime factors $225=3^2 \times 5^2$
	(a)	Write 150 as the product of prime factors. Give your answer in index form.
		Give your unswer in index form.
		Answer(3)
	(b)	Work out the highest common factor (HCF) of 225 and 150.
		Answer
		(2) (Total 5 marks)

6.

Answer	
	(Total 3 marks)

Find the Highest Common Factor (HCF) of 24, 60 and 108.

8.