Questions

Q1.

	(Total for question = 2 marks)
Find the value of $(2.8 - 0.45)^2 + \sqrt[3]{5.832}$	
Q4.	(1) (Total for Question is 3 marks)
(c) Write down the value of 2 ³	
(b) Write down the value of $\sqrt{25}$	(4)
(a) Write down the value of 7 ²	(1)
Q3.	(rotarior Quodien lo cinanto)
	(1) (Total for Question is 3 marks)
(c) Estimate the value of $\sqrt{20}$	(1)
(b) Write down the value of 10 ³	(1)
(a) Write down the square of 8	
Q2.	
	(1) (Total for question = 3 marks)
(b) Write down the value of 2 ⁻³	(-)
	(2)
(a) Work out $\frac{2}{5} + \frac{1}{4}$	
2 1	

Q5 . Find the value of 5 ⁴	
	(Total for question = 1 mark)
Q6. The same number is missing from each box.	
× ×	= 343
(a) Find the missing number.	
	(1)
(b) Work out 4 ⁴	(1)
	(1) (Total for question is 2 marks)
Q7. (a) Work out the value of 3.1 ⁴	
	(1)
(b) Simplify $(p^3)^2$	
(c) Simplify ^{t8} / ₃	(1)
(c) Simplify 77	
$2^3 \times 2^n = 2^9$	(1)
(d) Work out the value of <i>n</i>	
	(1)

(Total for Question is 4 marks)

Q8. Write down an example to show that each of the following two	statements is not correct.
(a) The factors of an even number are always even.	
(b) All the digits in odd numbers are odd.	(1)
	(1) (Total for question = 2 marks)
Q9. Express 56 as the product of its prime factors.	
Q10.	(Total for question = 2 marks)
Write down two factors of 12	
	,
	(Total for question = 1 mark)
Q11. Here is a list of eight numbers	
4 5 4 25 29 30 33	3 39 40
From the list, write down (i) a factor of 20	
(ii) a multiple of 10	
(iii) the prime number that is greater than 15	
	(Total for Question is 3 marks)

Q12.

Here is a list of numbers.									
	5	15	30	50	60	90	100	125	
From the numbers in the lis	st, writ	e dow	'n						
(i) two different numbers th	at add	up to	an ev	en nu	mber				
(ii) a multiple of 20									
(iii) a factor of 45									
(iv) a cube number									
								(Total for Question is	4 marks)
Q13.									
Find the Highest Common	Factor	· (HCF	F) of 2	4 and	60				
								(Total for question =	2 marke)
								(Total for question =	z marks)
Q14. (a) Find the lowest comm	on mu	ltiple ((LCM)	of 40	and 50	6			
	/	2							(2)
$A = 2^3 \times 3 \times 5 \qquad B = 2^2 \times 3 \times 5 \qquad B = 2^2 \times 3 \times 5 \times 5$									
(b) Write down the highest	comn	non fa	ctor (I	HCF) (of A an	d <i>B</i> .			
									(1)
								(Total for question =	

Both alarms sound together at 6.45 am. Tom's alarm then sounds every 9 minutes. Amy's alarm then sounds every 12 minutes.	
At what time will both alarms next sound together?	
	(Total for question = 3 marks)
Q16. Write 36 as a product of its prime factors.	
Q17. (a) Express 180 as a product of its prime factors.	(Total for question = 2 marks)
Martin thinks of two numbers.	(3)
He says, "The Highest Common Factor (HCF) of my two numbers is The Lowest Common Multiple (LCM) of my two numbers is	
(b) Write down two possible numbers that Martin is thinking of	f.
	,
	(2)

(Total for Question is 5 marks)

Q15.

Tom and Amy set the alarms on their phones to sound at 6.45 am.