MATHEMATICS ENTRANCE EXAMINATION ENTRY TO YEAR 9, SAMPLE PAPER

Time Allowed: 60 minutes

	(b). Find the Lowest Common Multiple of 12 and 18.	
(1) (Total: 3 marks)	Simplify (a)	2.
(2)	(b)	
(2) (Total: 4 marks)		

1. (a). Write down the first six multiples of 18.

3.	If $600 = 2^3 \times 3 \times 5^2$ and $108 = 2^2 \times 3^3$ find: (a) The Highest Common Factor	
	(b) The Lowest Common Multiple	(2)
	(c) Write 96 as a product of its prime factors.	(2)
	(Total: 7 mar	(3) · ks)

- 4.
- (a) Simplify the ratio
- 15 : 25

(b) Alex and Beth divide £30 in the ratio 2:3 How much do they each get?

(c) Charlie and David divide some money in the ratio 7:2
David gets £56. Find the total amount of money they split.

5.		e following. plify any frac		show your v	vorkings to g	ain any
	(a)					
	(b)					(2)
		[Give your a	inswer as ar	i improper fr	action or mixe	ed number]
	(c)		[Give yo	ur answer a	as a mixed n	(3) umber]
						(4)
					(Total:	9 marks)

6. Expand
(a)
(b)

(2) (c)

(2) (Total: 5 marks)

9.	Solve, giving ar	nswers as fractions	where appropriate.		
	(a)				
					(2)
	(b)				()
	4.)				(3)
	(c)			¢	

	, work out the value of <i>y</i> .	and	(a) If
	y =		
. (2)	l , work out the value c	and	(b) If
(2)	·		
r guestion: 4 marks)	(Total f		

11. A box containing tomatoes has a total mass of - kg. The box, when empty, has a mass of - kg. What is the mass of the tomatoes? Give your answer as a mixed number.

(Total: 4 marks)