mathsgenie.co.uk	Please do not write on this sheet		mathsgenie.co.uk	
<ul> <li>Write 40 as a product of its prim</li> <li>Write 72 as a product of its prim</li> </ul>	ne factors. (2 marks) ne factors.	<ul> <li>9 Two buses, bus A and bus B, both use the same bus stop.</li> <li>Bus A runs every 10 minutes. Bus B runs every 14 minutes.</li> <li>Both buses are at the bus stop at 11 am.</li> </ul>		
<b>3</b> Write 98 as a product of its prim	(2 marks) ne factors. (2 marks)	<ul> <li>What time will both buses next bot</li> <li>10 Light A flashes every 8 seconds. Light B flashes every 20 seconds.</li> </ul>	h be at the bus stop. (3 marks)	
<ul> <li>4 Write 240 as a product of its print</li> <li>5 Find the highest common factors</li> </ul>	me factors. (2 marks)	Both lights flash at the same time. Work out how long it will take for both lights to flash at the same again. (3 marks)		
6 Find the lowest common mu	(3 marks) (3 marks) (3 marks)	11 $648 = 2^3 \times 3^4$ (a) Write down the highest common (b) Find the lowest common multiplet	$540 = 2^2 \times 3^3 \times 5$ on factor (HCF) of 648 and 540. ple (LCM) of 648 and 540.	
<ul> <li>7 Find the highest common factor (HCF) of 84 and 120</li> <li>(3 marks)</li> <li>8 Find the lowest common multiple (LCM) of 70 and 56</li> </ul>		12 $\mathbf{A} = 2^2 \times 3 \times 5^2$ (a) Write down the highest common (b) Find the lowest common multiplet	(3 marks) $\mathbf{A} = 2^2 \times 3 \times 5^2 \qquad \mathbf{B} = 2^3 \times 3^2 \times 7$ (a) Write down the highest common factor (HCF) of <b>A</b> and <b>B</b> . (b) Find the lowest common multiple (LCM) of <b>A</b> and <b>B</b> .	
Grade 4	(3 marks) HCF a	nd LCM	(3 marks) Grade 4	

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13	Find the lowest common mu	ltiple (LCM) of 12, 15 and 18.		
		(3 marks)		
14	Light A flashes every 5 seco Light B flashes every 6 seco Light C flashes every 7 seco All three lights flash at the sa	nds. nds. nds. ame time.		
	Work out how long it will tak time again.	ke for all three lights to flash at the same		
		(3 marks)		
15	Find the highest common fac	ctor (HCF) of 72, 90 and 126		
		(3 marks)		
16	Kenny is thinking of two nu	mbers greater than 10.		
	He says: "The highest common factor The lowest common multiple Write down the two numbers	• (HCF) of my two numbers is 7 e (LCM) of my two numbers is 84"		
	white down the two humbers			
		(3 marks)		
	Grade 4	HCF ar	HCF and LCM	