

Topic Test 1 (20 minutes)

Factors and multiples - Foundation

1	Circle the number that is both a multiple of 3 and a multiple of 5				[1 mark]		
	10	25	27	30	35		
2	Circle the numbe	r that is a prime fa	ector of 189			[1 mark]	
	7	9	13	17	189		
3	Burgers are sold in packs of 6 Buns are sold in packs of 10						
	Liam wants to buy the same number of burgers and buns.						
	Work out the smallest number of packs of each items he could buy.						
				pac	ks of burgers	S	
				pac	ks of buns		

4 Here is a menu.

Starter	Main	Dessert
Soup (S)	Curry (C)	Ice cream (I)
Melon (M)	Roast (R)	Fruit (F)
Juice (J)	Pasta (P)	

4 (a) Beth chooses a starter and a main.

List all the possible combinations she could choose.

The first one has been done for you.

[2 marks]

SC

4 (b) Chen chooses a main and a dessert.

How many more possible combinations can Beth have than Chen?

[2 marks]

Answer		

A number is a n odd multiple of 3 a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m	Mo says, " Any com	Mo says, " Any common multiple of 2 and 4 is also always a multiple of 8"					
Work out a set of values for a , b and c so that $a+b=2c$ [2 m $a=___________________________________$	Give an example						
Work out a set of values for a , b and c so that $a+b=2c$ $a = $							
a = b = c = A number is • an odd multiple of 3 • a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m							
A number is • an odd multiple of 3 • a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m	Work out a set of	values for a , b and c so that $a + b = 2c$	[2 ma				
A number is • an odd multiple of 3 • a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m							
A number is • an odd multiple of 3 • a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m							
an odd multiple of 3 a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m]		a = b = c =	=				
a common factor of 180 and 750 Work out the greatest possible value of the number. [3 m]	A number is	• an odd multiple of 3					
[3 m							
Appurer	Work out the greatest possible value of the number.						
Annuar							
Angurar							
Anguran							
		Answer					

8	$x = 3^2 \times 5$	$y = 2 \times 5^2$			
	Circle the lowest co	mmon multiple of x and	dy.		
					[1 mark]
	5	30	450	2250	
9 (a)	Write 280 as a prod	uct of its prime factors			
. ,	·	·			[2 marks]
		Answer			
		Allswei			
9 (b)	$588 = 2^2 \times 3 \times 7^2$				
	Work out the highes	st common factor of 28	0 and 588		
	-				[2 marks]
		Answer			