

68

72 = _

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Write the numbers as pro	oducts of their prime factors.		8	A number has b	een written as the pro	
a) 9 =	b) 8 =			The answer is 2 ² × 3 × 11 ² Is 66 a factor of this number?		
18 =	32 =					
36 =	36 = 64 =			Explain how you know.		
81 =	128 =		9	a)	f and g are pri	
What do you notice abo	ut your answers?	\bigcirc			5 <i>fg</i> = 275	
			What is the value of g?			
Four numbers have been	written on cards as the product of their					
				b)	192 =	
	The greatest				a and b are pri	
number is the second card,			Find the values of a and b .			
00	as that has the most prime factors.					
a) Do you agree with W	hitney?			c)	495 can be wr	
Explain your answer.				What are the values of <i>c</i> , <i>d</i> and <i>e</i> ?		
		-				
					C	
b) Write the numbers in	ascending order.					
			10	$A = 5^2$	$^{2} \times 7^{2} \times 11^{3} \times 13$	
Dani works out 450 = 2 × 3 × 3 × 5 × 5				How many time	s greater is B than A ?	
Use this information to write these numbers as a product of their prime factors.				Explain how you	u know.	
900 =	225 =					
4.500 =	150 =					



