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## **RODERICK DONNA**

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Maths - BBC Bitesize* Factors Multiples  
Primes Prime Factors Factors Multiple and  
Primes. Lessons in this unit. Lesson 1.  
Multiples and Factor Pairs. 7m video.  
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are factors of a number that are,  
themselves, prime numbers. There are  
many methods to find the prime factors  
of a number, but one of the most  
common is to use a prime factor tree  
... Prime factors - Multiples, factors,  
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factors and primes PLEASE NOTE: This  
navigation system is still under  
development. This means that most of  
the links on this page are not yet  
active. Multiples, factors and Primes -

maths4everyone.com We recognised the links between factors of numbers and multiples of numbers. Finally we explored a method to find the prime numbers, how to express numbers as a product of their prime factors and how this can help develop an efficient method of finding the highest common factor of two numbers and the lowest common multiple of two numbers. Summary: multiples, factors and primes Multiples, Factors, Primes and Squares October 7, 2016. Students learn how to find common multiples and factors pairs of numbers and algebraic terms. By exploring the factor properties of different types of numbers students are introduced to prime and square numbers. This unit takes place in Year 7 Term 2 and follows on from using place

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10 . Factorising : Finding all of the numbers which multiply together to give the number you start with. Highest common factor (HCF) Multiples, factors and primes - Education Scotland A collection of short problems on factors, multiples and primes. LCM Sudoku Age 14 to 16 Challenge Level: Here is a Sudoku with a difference! Use information about lowest common multiples to help you solve it. ...Factors, Multiples and Primes Factors, Multiples, Primes 12. • Example: Write 84 as a product of its prime factors •  $84 = 2 \times 2 \times 3 \times 7$  •  $84 = 22 \times 3 \times 7$  • Now your turn: Write 42 as a product of prime factors.  $84 = 2 \times 2 \times 3 \times 7$  Factors, Multiples, Primes 13. • Highest Common Factor (HCF) - the number that goes into two or more numbers exactly. Factors,

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 FACTORS, MULTIPLES PRIMESThe  
 multiples are: 6, 12, 18, 24, 30, 36, 42,  
 48, 54, 60, etc. Now you try it out. Find  
 the first ten multiples of 9. Primes. Some  
 numbers have a ton of factors while  
 others don't seem to have many at all.  
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 i.e., express it as the product of primes.  
 Write the prime factorization in the  
 exponent form. Add  $(1)$  to each of the  
 exponents. Multiply all the resultant  
 numbers. This product would give the  
 number of factors of the given number.  
 Example: Find the number of factors of  
 the number  $(108)$  Solution: What is  
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resources support student understanding of prime numbers and how they can be used with reference to common factors and common multiples. Prime, not prime. So 2 is a prime number. It's only divisible by 1 and 2. 3 is another prime number. Now, 4 is not prime, because this is divisible by 1, 2 and 4. We could keep going. 5, well, 5 is only divisible by 1 and 5, so 5 is prime. 6 is not prime, because it's divisible by 2 and 3. I think you get the general idea. You move to 7, 7 is ...

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Find its prime factorization i.e., express it as the product of primes. Write the prime factorization in the exponent form. Add  $(1)$  to each of the exponents. Multiply all the resultant numbers. This

product would give the number of factors of the given number. Example: Find the number of factors of the number  $(108)$  Solution:

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So, common multiples of 2 and 3 are 6, 12, 18, Factor : A number is a 'factor' if it

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### **Mathematics (Linear) 1MA0 FACTORS, MULTIPLES PRIMES**

A lesson on discovering what factors, multiples and primes are. Hopefully

follows a fairly logical process, with a quite difficult activity to end on.

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Prime factors are factors of a number that are, themselves, prime numbers. There are many methods to find the prime factors of a number, but one of the most common is to use a prime factor tree ...

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FACTORS, MULTIPLES PRIMES Materials required for examination Items included with question papers Ruler graduated in centimetres and Nil millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used. Instructions Use black ink or ball-point pen.

**Summary: multiples, factors and**



## primes

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We recognised the links between factors of numbers and multiples of numbers. Finally we explored a method to find the prime numbers, how to express numbers as a product of their prime factors and how this can help develop an efficient method of finding the highest common factor of two numbers and the lowest common multiple of two numbers.

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Numbers. 5m video. Lesson 3. Prime Factor Decomposition. 7m video. Lesson 4. Using Prime Factor Decomposition. 8m video. More pages on this website. Site Map.

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The multiples are: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, etc. Now you try it out. Find the first ten multiples of 9. Primes. Some numbers have a ton of factors while others don't seem to have many at all. Any number that has precisely two distinct factors, 1 and itself, is called prime. Numbers that have more than two factors are composite.

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Write 84 as a product of its prime factors

•  $84 = 2 \times 2 \times 3 \times 7$  •  $84 = 22 \times 3 \times 7$  •

Now your turn: Write 42 as a product of

prime factors. 84 2 42 2 21 3 7 Factors,

Multiples, Primes 13. • Highest Common

Factor (HCF) – the number that goes into two or more numbers exactly.

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