

Is 221 a composite number

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ATQ $m+n = 290$ ——— (i)

and their L.C.M = $mn = 7199$

then $m = ?$

$n = ?$

Now

According to an identity

$$\begin{aligned} (m-n)^2 &= (m+n)^2 - 4mn \\ &= (290)^2 - 4 \times 7199 \\ &= 57600 - 16796 \\ &= 40804 \end{aligned}$$

$$\therefore m-n = \sqrt{40804} = 202 \text{ ——— (ii)}$$

Now add eq (i) and (ii)

$$m+n = 290$$

$$m-n = 202$$

$$\hline 2m = 492$$

$$\therefore m = \frac{492}{2} = 246 \text{ Ans}$$

$$n = 290 - 246 = 44 \text{ Ans}$$

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2	221	----- 1
2	110	----- 0
2	55	----- 1
2	27	----- 1
2	13	----- 1
2	6	----- 0
2	3	----- 1
	1	

$\therefore 221_{10} = 11011101_2$

FIND THE FACTORS 1-10

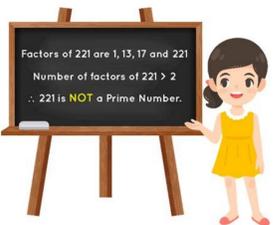
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Level THREE

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Is 221 a prime number? A prime number is divisible only by 1 and itself, which means it has no other divisor except 1 and the number itself. On the contrary, composite numbers have more than two factors. To determine if 221 is a prime number or composite, we need to divide it with numbers from 1 to 221. To find out the answer to this question "is 221 a prime number" and to gain a detailed understanding of "how and why is 221 a prime number or a composite number?" Let's learn more. Is 221 a prime number? - No Is 221 a composite number? - Yes Prime Factors of 221 - 13, 17 Factors of 221 - 1, 13, 17, 221 Is 221 a perfect square? - No Is 221 a Prime Number? No, 221 is not a prime number. The number 221 is divisible by 1, 13, 17, 221. For a number to be classified as a prime number, it should have exactly two factors. Since 221 has more than two factors, i.e. 1, 13, 17, 221, it is not a prime number. Why is 221 not a Prime Number? To understand whether 221 is composite or prime, it is important to find its factors. Factors of 221: 1, 13, 17, 221 Since 221 has more than 2 factors, we can say that 221 is not a prime number. Prime Number Calculator Is 221 a Composite Number? Yes, since 221 has more than two factors i.e. 1, 13, 17, 221. In other words, 221 is a composite number because 221 has more than 2 factors. Problem Statements: Fun Facts: A palindrome prime is a prime number that when read in reverse order results in the same number. Examples - 10601, 11311, 12421 23 is the smallest prime number having consecutive digits. A pair of prime numbers X and Y are said to be twin prime numbers if the absolute difference between them is 2. Example - (311, 313) are twin prime numbers. Also Check: Menu The natural numbers that are only divisible by 1 and themselves are called prime numbers. A composite number is a natural number that has at least one other factor than 1 and itself. The prime factorization of a number: finding the prime numbers that multiply together to make that number. Let's learn by having an example: Take number 220 and build its prime factorization We need the list of the first prime numbers, ordered from 2 up to, let's say, 20: 2, 3, 5, 7, 11, 13, 17, 19. The prime numbers are the building blocks of the composite numbers. 1. Start by dividing 220 by the smallest prime number, 2: $220 \div 2 = 110$; remainder = 0 \Rightarrow 220 is divisible by 2 \Rightarrow 2 is a prime factor of 220: $220 = 2 \times 110$. 2. Divide the result of the previous operation, 110, by 2, again: $110 \div 2 = 55$; remainder = 0 \Rightarrow 110 is divisible by 2 \Rightarrow 2 is a prime factor of 110: $220 = 2 \times 2 \times 55$. 3. Divide the result of the previous operation, 55, by 5, again: $55 \div 5 = 11$; remainder = 0 \Rightarrow 55 is not divisible by 2, 4. Move on to the next prime number, 3. Divide 55 by 3: $55 \div 3 = 18$ + 1; remainder = 1 \Rightarrow 55 is not divisible by 3. 5. Move on to the next prime number, 5. Divide 55 by 5: $55 \div 5 = 11$; remainder = 0 \Rightarrow 55 is divisible by 5 \Rightarrow 5 is a prime factor of 55: $220 = 2 \times 2 \times 55 = 2 \times 2 \times 5 \times 11$. 6. Notice that the remaining factor, 11, is a prime number, so we've already found all the prime factors of 220. Conclusion, the prime factorization of 220: $220 = 2 \times 2 \times 5 \times 11$. This can be written in a condensed form, in exponential notation: $220 = 2^2 \times 5 \times 11$. The prime factorization of a number N = Dividing the number N into smaller numbers that are prime. By multiplying these smaller prime numbers one gets the number N. A prime number is a natural number that is only divisible by 1 and itself. 1 is not considered a prime number. The Prime Factorization of a number: finding the prime numbers that multiply together to make that number. The fundamental theorem of arithmetic says that every integer larger than 1 can be written as a product of one or more prime numbers, in a way that is unique, except for the order of the prime factors. The number 1 is not considered prime, so the first prime number is 2. If the number 1 were considered a prime number, then the prime factorization of the number 15 could be written as: $15 = 3 \times 5$ OR $15 = 1 \times 3 \times 5$ - these two representations would be considered different prime factorizations of the same number, so the theorem above would have no longer been valid. The natural numbers that are evenly dividing only by 1 and themselves are called prime numbers. Examples of prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31 and so on. If a number is prime, it cannot be factored down to other prime factors, it is divisible only by 1 and itself - the number itself is called in this case an IMPROPER FACTOR (or an improper divisor). Some people also consider 1 as an improper factor. A composite number is a natural number that has at least one factor (divisor) other than 1 and the number itself. A composite number is also any natural number larger than 1 that is not a prime number. Examples of composite numbers: 4, 6, 8, 9, 10, 12, 14, 16, 18, 20, 21, 22, 24, 25, 26 and so on. A prime number can't be factored down to other prime factors, but a number that is a composite can, as shown below: Example 1: 6 is divisible by 6, 3, 2 and 1, so 6 is not a prime, it's a composite number. 6 can be written as a product of factors in different ways, as: $6 = 1 \times 6$, or $6 = 1 \times 2 \times 3$ or $6 = 2 \times 3$. But its prime factorization, regardless of the order of the factors, is always: $6 = 2 \times 3$. Example 2: 120 can be written as a product of factors in different ways, as $120 = 4 \times 30$ or $120 = 2 \times 2 \times 15$ or $120 = 2 \times 2 \times 2 \times 3 \times 5$. Its prime factorization is always: $120 = 2 \times 2 \times 2 \times 3 \times 5 = 2^3 \times 3 \times 5$ - the last form of writing is the condensed form, with exponents, of the first form, the longer one. * Note: $23 = 2 \times 2 \times 2 = 8$. We are saying that 2 was raised to the power of 3. In this example, 3 is the exponent and 2 is the base. The exponent indicates how many times the base is multiplied by itself. 23 is the power and 8 is the value of the power. Why is it important to know about the prime factorization of the numbers? The prime factorization is useful when calculating the greatest common factor, GCF, of numbers (also called the greatest common divisor GCD, or the highest common factor, HCF). GCF is needed when reducing (simplifying) fractions to the lowest terms. The prime factorization comes in handy when calculating the least common multiple, LCM, of numbers - this is needed when adding or subtracting ordinary fractions, for example... And the examples could continue (numbers divisibility, calculating all the factors of a number starting from its prime factorization, and so on...). More examples of prime numbers: 181 is divisible only by 181 and 1, so 181 is a prime number. 2,341 is divisible only by 2,341 and 1, so 2,341 is a prime number. 6,991 is divisible only by 6,991 and 1, so 6,991 is a prime number. This is the list of all the prime numbers, from 1 up to 100: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97. The prime numbers are used as basic blocks when building the prime factorization of the composite numbers. So we could say that the prime numbers really are the basic blocks of the composite numbers. What is a prime number? Definition, examples What is a composite number? Definition, examples The prime numbers up to 1,000 The prime numbers up to 10,000 The Sieve of Eratosthenes The Euclidean Algorithm Completely reduce (simplify) fractions to the lowest terms: Steps and Examples As we already know that, the number having factors 1 and the number itself is the prime number. And numbers having more than these two factors are the composite numbers. To check whether the number 221 is composite or not first we have to find its factors. Factors of 221: If we have taken numbers from 1, 2, 3...for checking factors of 221, we found that 221 has factors 1, 13, 17 and 221. Hence, we must say that 221 is a composite number. Thus, 221 is the composite number. If we multiply 221 by 1, 2, 3 then we get the multiples of 221 which are 221, 442, and so on. About the number 221: 221 has more than two factors which are 1, 13, 17 and 221 and hence it is the composite number. 221 is the odd composite number and it is not the perfect square also. If we divide 221 by 1, 13, 17 and 221 then we get remainder as zero. Hence, 1, 13, 17 and 221 are the factors of 221. Note: 221 is not the perfect square. Factors of 221: 1, 13, 17 and 221 Prime factors of 221: 13, 17 Conclusion: 221 is the composite number which has factors 1, 13, 17 and 221. And hence, 221 is not the prime number. Multiple Choice Questions: 1) 221 is a a) odd number b) Prime number c) Composite number d) Both a and c Ans: d) both a and c 2) The prime factors of a composite number 221 are a) 1 b) 13, 17 c) Both a and b d) 221 Ans: b) 13, 17 3) 1 is the not prime factor of 221 because a) It is the prime number b) 1 is neither prime nor composite number c) Both a and b d) Given statement is false Ans: b) 1 is neither prime nor composite number Updated: November 26, 2021 - 3:50 pm Here is the answer to questions like: Is the number 221 prime or composite? or is 221 a prime or a composite number? Prime Numbers Calculator E-mail This Page To A Friend An integer greater than one is called a prime number if its only positive divisors (factors) are one and itself. For example, the only divisors of 11 are 1 and 11, so 11 is a prime number, while the number 51 has divisors 3, 17 and 51 itself ($51 = 3 \times 17$), making 51 not a prime number. Definition of prime 2 A positive integer that is not divisible without remainder by any integer except itself and 1, with 1 often excluded. Note that: 0 (zero) is not a prime number because it isn't divided by itself. Zero has an infinite number of divisors (any nonzero whole number divides zero). It cannot be written as a product of two factors, neither of which is itself, so zero is also not composite. More concisely, zero is not a prime or a composite number either. 1 (one) is neither a prime nor a composite number. One has only one positive divisor. It cannot be written as a product of two factors, neither of which is itself, so one is also not composite. The number one falls in a class of numbers called units. Please link to this page! Just right click on the above image, choose copy link address, then past it in your HTML.

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