


Find hcf of 81 and 237

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Find hcf of 81 and 237

Find hcf of 81 and 237 and express it as a linear combination. Find the hcf of 81 and 237. Find hcf of 81 and 237 and express. Find hcf of 81 and 237 using division algorithm. What is the hcf of 81 and 237.

Step 1: From 99> 81, we apply the Lemma Division to 99 and 81, to Get99 = 81 x 1 + 18 Step 2: Since the remainder 81 Ą 0, we apply the Lemma Division to 18 and 81, to Get81 = 18 x 4 + 9Step 3: we consider the new divisor 18 and the new remainder 9, and apply the Lemma Division to Get18 = 9 x 2 + 0 the rest has become zero, so our procedure stops. Since the divisor at this stage is 9, the HCF of 81 and 99 is 9notice that 9 = HCF (18,9) = HCF (81,18) = HCF (99,81). \$ \Beggingroup \$ How are they finding the surrounded part. I'm trying my best to figure it out, but to no avail. \$endgroup \$ 3 HCF of 81 and 237 is the largest possible number dividing 81 and 237 exactly without any residue. The factors of 81 and 237 are 1, 3, 9, 27, 81 and 1, 3, 79, 237 respectively. There are 3 commonly used methods to find the HCF of 81 and 237 - Euclidean algorithm, first borselization and long division. What is HCF of 81 and 237? Answer: HCF of 81 and 237 is 3. Explanation: The HCF of two non-zero integers, X (81) and Y (237), is the highest positive integer M (3) dividing both X (81) and Y (237) without any residue. Methods to find the HCF of 81 and 237 Let's consider the different methods to find the HCF of 81 and 237. Using the Euclid algorithm Long Division Method List of common factors HCF of 81 and 237 from the Euclidean algorithm according to the Euclidean algorithm, HCF (X, Y) = hcf (y, x mod y) where x> y and mod is the module operator. Where x = 237 and y = 81 HCF (237, 81) = HCF (81, 237 MOD 81) = HCF (81, 75) HCF (81, 75) = HCF (75, 81 MOD 75) = HCF (75, 6) = HCF (6, 75 MOD 6) = HCF (6, 3) = HCF (6, 3) = HCF (3, 6 MOD 3) = HCF (3, 0) HCF (3, 0) = 3 (Ā)Ĥ4 HCF (x, 0) = | x |, where x is 0) Therefore, the HCF value of 81 and 237 is 3. HCF of 81 and 237 by a long division HCF of 81 and 237 is the divisor we get when the rest becomes 0 after doing a long division repeatedly. Step 1: Divide 237 (larger number) by 81 (smaller number). Step 2: Since the rest is 0, we will divide the divisor of step 1 (81) from the rest (75). Step 3: Repeat this process until the rest = 0. The corresponding divisor (3) is the HCF of 81 and 237. HCF of 81 and 237 listing common factors factors of 81: 1, 3, 9, 27, 81 factors of 237: 1, 3, 79, 237 There are 2 common factors of 81 and 237, which are 1 and 3. Therefore, the highest common factor of 81 and 237 is 3. Also check: HCF of 81 and 237 examples EXAMPLE 1: Find the highest number that divides exactly 81 and 237. Solution: The highest number dividing 81 and 237 is exactly their highest common factor, i.e. HCF of 81 and 237. Ā Factors of 81 and 237: Factors of 81 = 1, 3, 9, 27, 81 Factors of 237 = 1, 3, 79, 237 Therefore, the HCF of 81 and 237 is 3. Example 2: the product of two numbers is 19 197. If their HCF is 3, what is their LCM? Solution: Data: HCF = 3 and product of numbers = 19 197 Ā Ĥ4 LCM Ā hcf = product of numbers Ā Ā Ā Ā LCM = / HCF = 19197/3 Therefore, the LCM is 6399. Example 3: find the HCF the HCF 81 and 237, if their LCM is 6399. Solution: Ā LCM Ā HCF = 81 Ā 237 Ā Ĥ HCF (81, 237) = (81 Ā 237) / 6399 = 3 Therefore, the factor Municipality higher than 81 and 237 is 3. Show the solution> Go to slidego for slidego to slidego ready to see the world through the eyes of mathematics? Mathematics is at the center of everything we do. Enjoy the resolution of math problems in the real world in live classes and become an expert throughout. Book a free trial class The HCF of 81 and 237 is 3. To calculate the HCF of 81 and 237, we need to calculate each number (factors of 81 = 1, 3, 9, 27, 81; Factors of 237 = 1, 3, 79, 237) and choose the highest factor that divides exactly both 81 and 237, ie, 3. What is the relationship between LCM and HCF of 81, 237? The following equation can be used to express the relationship between the minimum Multiple Multiple and HCF of 81 and 237, ie HCF Ā LCM = 81 Ā 237. How to find HCF 81 and 237 from Long Division Method? To find the HCF of 81, 237 using the long division method, 237 is divided by 81. The corresponding divider (3) when remaining equal 0 is taken as HCF. What are the methods to find HCF of 81 and 237? There are three commonly used methods to find HCF of 81 and 237. By listing common factors for Long Division for first factorization if the HCF of 237 and 81 is 3, find its LCM. HCF (237, 81) Ā LCM (237, 81) = 237 Ā 81 from HCF of 237 and 81 = 3 Ā Ĥ 3 Ā LCM (237, 81) = 19197 Therefore, LCM = 6399 Calculator Cal Computer Municipality higher how to find to find HCF of 81 and 237, we will find the first factorization of data numbers, ie 81 = 3 Ā 3 Ā 3 Ā 3 Ā 3; 237 = 3 Ā 79. Ā Ĥ Because 3 is the only common main factor of 81 and 237. So, HCF (81, 237) = 3. Ā Ĥ Prime Number Below you can find the Complete step step by step for the problem. We hope it will be very useful for you and will help you understand the resolution process. If it is not what you are looking for your values in the calculator field, and you will get the solution. To find the largest common factor of two numbers, just type them and get the solution. To get the Greater Common Factor (GCF) of 81 and 237 we need factors before and then we choose all the copies of the factors and multiply them. The Greatest Common Factor (GCF) is: 3 You can always share this solution | Greatest Common Factor (GCF) of 385 and 910 | Greatest Common Factor (GCF) of 210 and 900 | Greatest Common Factor (GCF) of 47 and 210 | Greatest Common Factor (GCF) of 2 and 352 | Large Common Factor (GCF) of 105 and 231 | Common Factor (GCF) of 272 and 1071 | Common Factor (GCF) of 248 832 and 65 536 | Common Factor (GCF) of 243 and 64 | Common Factor of 391 and 7 | 1 From the rest 75 Ą 0, we apply lemma division to 81 and 75 to get From the rest 6 Ą 0, we apply lemma division to 75 and 6 to get From the rest 3 Ą 0, we apply lemma division to 6 and 3 to get In this step the rest is zero. So, the divisor i.e. 3 in this step is the H.C.F. of the given numbers The H.C.F. of 237 and 81 is 3 So, from step 5, you get 3 = 75 Ą (81 Ą 75 Ā 1) Ā 12 Ą 3 = 75 Ą (81Ā 12 Ą 75 Ā 12) Ą 3 = 75 to 3 75 Ą 3 81 to 3 12 ... Step 6 3 = (237 Ą 81 Ā 2) Ā 13 Ą 81 Ą 12 Ą 3 Ą 3 Di Euclid's Division Algorithm, 237=81 (2) + (75) 81=75 (1) + (6) 75=6 (12) + (3) 6=3 (2) + (0) HCF =3 Express as 237x+81y=HCF 3=75-6 (1 2) { From the second last step} 3=75- (81-75) (12) {Substituting} 3=75- (81Ā12-75Ā12) 3=75-81Ā12+75Ā12 3=75 (13) -81 (12) 3= (237-81Ā2) (13) -81 (12) 3=237 (13) -81 (38) 3=237 (13) + 81 (-38) Write the denominator the rational number \ (frac{129}{2^2 (times 5^7)}) in the form 2m \ ((times)\ 5n, where m, n are non-negative integers. So, write its decimal expansion, no real division. Division.

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