

Chapter 1: Real Numbers

Exercise 1.1 (Page 7 of Grade 10 NCERT Textbook)

Q1. Use Euclid's division algorithm to find the HCF of:

(i) 135 and 225

(ii) 196 and 38220

(iii) 867 and 255

Difficulty Level: Easy

What is given /known?

Two different numbers

What is the unknown?

HCF of the given numbers.

Reasoning:

You have to find the HCF of given integers by using Euclid's Division Lemma. It is a technique to compute the highest common factor of two given positive integer. Recall, that the HCF of two positive integers a and b is the largest positive integer that divides both a and b .

To obtain the HCF of two positive integers say a and b with $a > b$, follow the below steps-

Step-I. Apply Euclid's division lemma to a and b . So, we find whole numbers q and r such that

$$a = bq + r, 0 \leq r < b$$

Step-II. If $r = 0$, b is the HCF of a and b . If $r \neq 0$, apply the division lemma to b and r .

Step-III. Continue the process till the remainder is zero. The divisor at this stage will be the required HCF.

Solution:

(i) 135 and 225

In this case $225 > 135$. We apply Euclid's division lemma to 135 and 225 and get
 $225 = (135 \times 1) + 90$

Since, the remainder $r \neq 0$, we apply the division lemma to 135 and 90 to get
 $135 = (90 \times 1) + 45$

Maths Chapter Real Numbers Class 1

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Understand Mathematics, Understand Computing Arnold L. Rosenberg, Denis Trystram, 2020-12-05 In this book the authors aim to endow the reader with an operational conceptual and methodological understanding of the discrete mathematics that can be used to study understand and perform computing They want the reader to understand the elements of computing rather than just know them The basic topics are presented in a way that encourages readers to develop their personal way of thinking about mathematics Many topics are developed at several levels in a single voice with sample applications from within the world of computing Extensive historical and cultural asides emphasize the human side of mathematics and mathematicians By means of lessons and exercises on doing mathematics the book prepares interested readers to develop new concepts and invent new techniques and technologies that will enhance all aspects of computing The book will be of value to students scientists and engineers engaged in the design and use of computing systems and to scholars and practitioners beyond these technical fields who want to learn and apply novel computational ideas *A Concise Introduction to Pure Mathematics* Martin Liebeck, 2018-09-03 Accessible to all students with a sound background in high school mathematics A Concise Introduction to Pure Mathematics Fourth Edition presents some of the most fundamental and beautiful ideas in pure mathematics It covers not only standard material but also many interesting topics not usually encountered at this level such as the theory of solving cubic equations Euler's formula for the numbers of corners edges and faces of a solid object and the five Platonic solids the use of prime numbers to encode and decode secret information the theory of how to compare the sizes of two infinite sets and the rigorous theory of limits and continuous functions New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups covering abstract reasoning as well as many examples and applications New material on inequalities counting methods the inclusion exclusion principle and Euler's phi function Numerous new exercises with solutions to the odd numbered ones Through careful explanations and examples this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory discrete mathematics analysis and abstract algebra Written in a rigorous yet accessible style it continues to provide a robust bridge between high school and higher level mathematics enabling students to study more advanced courses in

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