

Mathematics

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(Chapter - 1) (Real Numbers) (Exercise 1.1)
(Class X)

Question 1:

Express each number as product of its prime factors:

(i) 140

(ii) 156

(iii) 3825

(iv) 5005

(v) 7429

Answer 1:

(i) $140 = 2 \times 2 \times 5 \times 7 = 2^2 \times 5 \times 7$

(ii) $156 = 2 \times 2 \times 3 \times 13 = 2^2 \times 3 \times 13$

(iii) $3825 = 3 \times 3 \times 5 \times 5 \times 17 = 3^2 \times 5^2 \times 17$

(iv) $5005 = 5 \times 7 \times 11 \times 13$

(v) $7429 = 17 \times 19 \times 23$

Question 2:

Find the LCM and HCF of the following pairs of integers and verify that $\text{LCM} \times \text{HCF} = \text{product of the two numbers}$.

(i) 26 and 91

(ii) 510 and 92

(iii) 336 and 54

Answer 2:

(i) 26 and 91

$26 = 2 \times 13$

$91 = 7 \times 13$

HCF = 13

$\text{LCM} = 2 \times 7 \times 13 = 182$

Product of the two numbers = $26 \times 91 = 2366$

$\text{HCF} \times \text{LCM} = 13 \times 182 = 2366$

Hence, product of two numbers = HCF \times LCM

(ii) 510 and 92

$510 = 2 \times 3 \times 5 \times 17$

$92 = 2 \times 2 \times 23$

HCF = 2

$\text{LCM} = 2 \times 2 \times 3 \times 5 \times 17 \times 23 = 23460$

Product of the two numbers = $510 \times 92 = 46920$

$\text{HCF} \times \text{LCM} = 2 \times 23460 = 46920$

Hence, product of two numbers = HCF \times LCM

(iii) 336 and 52

$336 = 2 \times 2 \times 2 \times 2 \times 3 \times 7 = 2^4 \times 3 \times 7$

$54 = 2 \times 3 \times 3 \times 3 = 2 \times 3^3$

HCF = $2 \times 3 = 6$

$\text{LCM} = 2^4 \times 3^3 \times 7 = 3024$

Product of the two numbers = $336 \times 54 = 18144$

$\text{HCF} \times \text{LCM} = 6 \times 3024 = 18144$

Hence, product of two numbers = HCF \times LCM

Question 3:

Find the LCM and HCF of the following integers by applying the prime factorisation method.

(i) 12, 15 and 21

(ii) 17, 23 and 29

(iii) 8, 9 and 25

Answer 3:

(i) 12, 15 and 21

$12 = 2 \times 2 \times 3 = 2^2 \times 3$

$15 = 3 \times 5$

$21 = 3 \times 7$

HCF = 3 and $\text{LCM} = 2^2 \times 3 \times 5 \times 7 = 420$

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Leonard Eugene Dickson



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Table of Contents Maths Question With Solved Solution For Ss2 3rd Teram

1. Understanding the eBook Maths Question With Solved Solution For Ss2 3rd Teram
 - The Rise of Digital Reading Maths Question With Solved Solution For Ss2 3rd Teram
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question With Solved Solution For Ss2 3rd Teram
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Question With Solved Solution For Ss2 3rd Teram
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question With Solved Solution For Ss2 3rd Teram

- Personalized Recommendations
 - Maths Question With Solved Solution For Ss2 3rd Teram User Reviews and Ratings
 - Maths Question With Solved Solution For Ss2 3rd Teram and Bestseller Lists
5. Accessing Maths Question With Solved Solution For Ss2 3rd Teram Free and Paid eBooks
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 - Maths Question With Solved Solution For Ss2 3rd Teram eBook Subscription Services
 - Maths Question With Solved Solution For Ss2 3rd Teram Budget-Friendly Options
 6. Navigating Maths Question With Solved Solution For Ss2 3rd Teram eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Question With Solved Solution For Ss2 3rd Teram Compatibility with Devices
 - Maths Question With Solved Solution For Ss2 3rd Teram Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question With Solved Solution For Ss2 3rd Teram
 - Highlighting and Note-Taking Maths Question With Solved Solution For Ss2 3rd Teram
 - Interactive Elements Maths Question With Solved Solution For Ss2 3rd Teram
 8. Staying Engaged with Maths Question With Solved Solution For Ss2 3rd Teram
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question With Solved Solution For Ss2 3rd Teram
 9. Balancing eBooks and Physical Books Maths Question With Solved Solution For Ss2 3rd Teram
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question With Solved Solution For Ss2 3rd Teram
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Maths Question With Solved Solution For Ss2 3rd Teram
 - Setting Reading Goals Maths Question With Solved Solution For Ss2 3rd Teram
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Maths Question With Solved Solution For Ss2 3rd Teram

- Fact-Checking eBook Content of Maths Question With Solved Solution For Ss2 3rd Teram
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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6 isolation of trinyristin from nutmeg and preparation of myristic acid from

orgo 2 lab 6 lab report lab 6 an unknown binary mixture studocu - Feb 01 2023

web this lab report is based upon unknown binary mixture e containing unknowns 6s and 15l as it contains a solid liquid
mixture vacuum filtration was conducted 6s is insoluble in 15l procedure 1 take the unknown binary mixture and make
observations about the mixture by stating its state odor color and solubility characteristics