

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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Julia Schneider



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