



Exercise 2D

$$\begin{array}{r} 1 \\ 441 \overline{) 567} \\ \underline{-441} \\ 126 \overline{) 441} \quad (3 \\ \underline{-378} \\ 63 \overline{) 126} \quad (2 \\ \underline{-126} \\ 0 \end{array}$$

$\therefore \text{HCF} = 63$

Now, we will find the HCF of 63 and 693.

$$\begin{array}{r} 11 \\ 63 \overline{) 693} \\ \underline{-693} \\ 0 \end{array}$$

$\therefore \text{HCF} = 63$

Hence, the required number is 63.

Q28

Answer :

(i) $\frac{161}{207}$

To reduce the given fraction to its lowest term, we will divide the numerator and the denominator by their HCF.

Now, we will find the HCF of 161 and 207.

$$\begin{array}{r}
 1 \\
 161 \overline{) 207} \\
 \underline{-161} \\
 46 \\
 46 \overline{) 161} 3 \\
 \underline{-138} \\
 23 \\
 23 \overline{) 46} 2 \\
 \underline{-46} \\
 0
 \end{array}$$

$\therefore \text{HCF} = 23$

Dividing the numerator and the denominator by the HCF, we get:

$$\frac{161 \div 23}{207 \div 23} = \frac{7}{9}$$

(ii) $\frac{517}{799}$

To reduce the given fraction to its lowest term, we will divide the numerator and the denominator by their HCF.

Now, we will find the HCF of 517 and 799.

$$\begin{array}{r}
 1 \\
 517 \overline{) 799} \\
 \underline{-517} \\
 282 \\
 282 \overline{) 517} 1 \\
 \underline{-282} \\
 235 \\
 235 \overline{) 282} 1 \\
 \underline{-235} \\
 47 \\
 47 \overline{) 235} 5 \\
 \underline{-235} \\
 0
 \end{array}$$

$\therefore \text{HCF} = 47$

Dividing the numerator and the denominator by the HCF, we get:

$$\frac{517 \div 47}{799 \div 47} = \frac{11}{17}$$

(iii) $\frac{296}{481}$

To reduce the given fraction to its lowest term, we will divide the numerator and the denominator by their HCF.

Now, we will find the HCF of 296 and 481.

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