

Playing with Numbers Ex 2.7 Q1

### Answer:

(i) 300 and 450

Dividend = 450 and divisor = 300

Clearly, the last divisor is 150. Hence, HCF of the given numbers is 150.

(ii) 399 and 437

We have dividend = 399 and divisor = 437

Clearly, the last divisor is 19.

Hence, HCF of the given numbers is 19.

# (iii) 1045 and 1520

We have dividend = 1045 and divisor = 1520

Clearly, the last divisor is 95.

Hence, HCF of the given numbers is 95.

Playing with Numbers Ex 2.7 Q2

#### Answer:

We know that two numbers are co-primes if their HCF is 1.

## (i) 59 and 97

Here, dividend = 97 and divisor = 59

$$\begin{array}{c|c}
59 & 97 & 1 \\
\hline
38 & 59 & 1 \\
\hline
38 & 21 & ) & 38 & 1 \\
\hline
21 & 17 & ) & 21 & 1 \\
\hline
17 & 4 & ) & 17 & 4 \\
\hline
16 & 1 & ) & 4 & 4 \\
\hline
4 & 0 & 4
\end{array}$$

Clearly, the last divisor is 1.

Hence, the given numbers are co-primes.

# (ii) 875 and 1859

Here, dividend = 1,859 and divisor = 875

Clearly, the last divisor is 1. Hence, the given numbers are co-primes.

## (iii) 288 and 1375

Here, dividend = 288 and divisor = 1,375

$$\begin{array}{c|c}
288 \overline{\smash)1375} \ (4) \\
\underline{1152} \\
223 \ \underline{)288} \ (1) \\
\underline{223} \\
65 \ \underline{)223} \ (3) \\
\underline{195} \\
28 \ \underline{)65} \ (2) \\
\underline{56} \\
9 \ \underline{)28} \ (3) \\
\underline{27} \\
1 \ \underline{)9} \ (9) \\
\underline{9} \\
0
\end{array}$$

Clearly, the last divisor is 1. Hence, the given numbers are co-primes.

\*\*\*\*\*\* END \*\*\*\*\*\*\*