Name: $\qquad$ Date: $\qquad$

## Problems on HCF and LCM

Q1. HCF and LCM of two numbers is 145 and 2175 respectively. One of the numbers is 725 , find the other number.

Sol.

Q2. HCF of two numbers is 18 and product of two numbers is 648 . Find the LCM of two numbers.

Sol.

Q3. The two numbers are 24 and 40 . Now, show that LCM $\times \mathrm{HCF}=$ Products of two numbers.
Sol.

## Answers

## Problems on HCF and LCM

Q1. HCF and LCM of two numbers is 145 and 2175 respectively. One of the numbers is 725 , find the other number.
Sol. H.C.F of two numbers $=145$
L.C.M of two numbers $=2175$

One of the number $=725$
Other number $=$ H.C.F x L.C.M / One of the number
$=145 \times 2175 / 725$
$=435$

Q2. HCF of two numbers is 18 and product of two numbers is 648 . Find the LCM of two numbers.

Sol. H.C.F of two numbers $=18$
Product of the two numbers $=648$
L.C.M = Product of two numbers/ H.C.F
$=648 / 18$
$=36$

Q3. The two numbers are 24 and 40 . Now, show that LCM $\times \mathrm{HCF}=$ Products of two numbers.
Sol. We compute the H.C.F and L.C.M of 24 and 40.

| 2 | 24,40 |
| :--- | :--- |
| 2 | 12,20 |
| 2 | 6,10 |
|  | $3, \quad 5$ |

H.C.F $=2 \times 2 \times 2=8$ and L.C.M $=2 \times 2 \times 2 \times 3 \times 5=120$

Now, H.C.F x L.C.M $=8 \times 120=960$
And, Product of the numbers $=24 \times 40=960$
Therefore, Product of the numbers $=$ Product of their H.C.F and L.C.M

