Name:

Date:

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 x HCF = Products of two numbers.

Sol.

<u>Answers</u>

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 = 145x2175 / 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
 - = 648/18
 - = 36
- Q3. The two numbers are 24 and 40. Now, show that LCM x 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, 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 \times 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