Real Numbers Ex 1.4 Q14

Answer :

GIVEN: LCM and HCF of two numbers are 2175 and 145 respectively. If one number is 725

TO FIND: Other number

We know that,

$$L.C.M \times H.C.F = \text{First Number} \times \text{Second Number}$$

$$2175 \times 145 = 725 \times \text{Second Number}$$

$$\text{Second Number} = \frac{2175 \times 145}{725}$$

$$\boxed{\text{Second Number} = 435}$$

Real Numbers Ex 1.4 Q15

Answer :

TO FIND: can two numbers have 16 as their H.C.F and 380 as their L.C.M

On dividing 380 by 16 we get 23 as the quotient and 12 as the remainder.

Since L.C.M is not exactly divisible by the H.C.F, two numbers cannot have 16 as their H.C.F and 380 as their L.C.M

Real Numbers Ex 1.4 Q16

Answer :

GIVEN: HCF of two numbers 306 and 657 is 9.

TO FIND: L.C.M of number

We know that,

$$L.C.M \times H.C.F = \text{First Number} \times \text{Second Number}$$

$$L.C.M \times 9 = 306 \times 657$$

$$L.C.M = \frac{306 \times 657}{9}$$

$$\boxed{L.C.M = 22338}$$

*********** END *********