

## Ex 8(B)

i) Find the HCF of 27 and 36

Factors of 27 - ~~1, 3, 9, 27~~ 1, 3, 9, 27

Factors of 36 - 1, 2, 3, 4, 6, 9, 12, 18, 36

Common factors of 27 and 36 are: 1, 3 and 9

∴ The HCF is 9

ii) Find the HCF of 82 and 104

Factors of 82 = 1, 2, 41, 82

Factors of 104 = 1, 2, 4, 8, 13, 26, 52, 104

Common factors of 82 and 104 are: 1 and 2

The HCF is 2

Find the common factors of 20, 35 and 40. Find the H.C.F. of 20, 35 and 40.

Factors of 20 = 1, 2, 4, 5, 10, 20

Factors of 35 = 1, 5, 7, 35

Factors of 40 = 1, 2, 4, 5, 8, 10, 20, 40

The common factors of 20, 35 and 40 are 1 and 5

The H.C.F. is 5.

iv) Find the common factors of 45, 60 and 75. Find the H.C.F. of 45, 60 and 75

Factors of 45 = 1, 5, 9, 15, 45

Factors of 60 = 1, 6, 10, 12, 15, 20, 30, 60

Factors of 75 = 1, 15, 25, 75

The common factors of 45, 60 and 75 are 1 and 5

The H.C.F. is  $\boxed{5}$

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Q. Find the common factors of 18, 28, 46 and 58  
and find the H.C.F. of 18, 28, 46 and 58

Ans) The common factors of 18 is = 1, 2, 3, 6, 9, 18

The common factors of 28 is = 1, 2, 4, 7, 14, 28

The common factors of 46 is = 1, 2, 23, 46

The common factors of 58 is = 1, 2, 29, 58

The common factors of 18, 28, 46 and 58 is

~~1, 2~~ 1 and 2

The H.C.F. is =  $\boxed{2}$