

Ex- BCB)

1. using the common factor method find the HCF of :-

(i) 16 and 35

Ans- 16 = 1, 2, 4, 8, 16 ~~2, 16~~
 4 ~~8~~

35 = 1, 5, 7, 35

HCF = 1

(ii) 25 and 20

Ans- 25 = 1, 5, 25
 20 = 1, 2, 4, 5, 10, 20

HCF = 5

(iii) 27 and 75

Ans- 27 = 1, 3, 9, 27
 75 = 1, 3, 5, 15, 25, 75

HCF = 3

(iv) 8, 12 and 18

Ans- 8 = 1, 2, 4, ~~8~~ 6, 12 HCF = 3
 12 = 1, 2, 3, 4, 6, 12
 18 = 1, 2, 3, 6, 9, 18

(1) 24, 36, 45 and 60
12, 18 and 24

Ans: 24 = 1, 2, 3, 4, 6, 8, 12, 24

36 = 1, 2, 3, 4, 6, 12, 18, 36

45 = 1, 3, 5, 9, 15, 45

60 = 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

∴ d = 3