C.W
19-8-21

1.) find the HcF of the following:

A.) 8 and 16.

Ans.) Factors of 8 = 1, 2, 4, 8 So the Hcf of 8 and 16 is 8.

Factors of 16 = 1, 2, 4, 8, 16

B.) 12 and 24

Ans.) Factors of 12 = 1, 2, 3, 4, 6, 12 So, the Hcf of 12 and 24 is 12.

factors of 24 = 1, 2, 3, 4, 6, 8, 24

c.) 24 and 36.

Ans.) Factors of 24 = 1, 2, 3, 4, 6, 8, 12, 24.

factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

So the Hcf 24 and 36 is 12.

D.) 5 and 10.

Ans.) Factors of 5 = 1, 5.

factors of 5 = 1, 2, 5, 10 So the Hcf of 5 and 10 is 5

e.) 15 and 30.

factors of 15 = 1, 3, 5, 15. So the Hcf of 15 and 30 is 15

factors of 30 = 1, 2, 3, 5, 6, 10, 15, 30.

f.) 4 and 6.

factors of 4 = 1, 2, 4

factors of 6 = 1, 2, 3, 6

H.W
23-8-24

G.) 54 and 72

factors of 54 = 2, 4, 6, 8, 24, 32, 56.

factors of 72 = 3, 7, 9, 12, 16, 36, 42 and 74

H.) 56 and 70

factors of 56 = 2, 8, 12, 20, 24, 24, 36, 42 and 56.

factors of 70 = 9, 18, 27, 36, 45, 54, 63, 70

I.) 23 and 25

factors of 23 = 2, 5, 7, 9, 13, 21

factors of 25 = 4, 6, 8, 12, 15, 17, 19, 25.

Gu
24-8-21

2.) Find the Hcf of the following by prime factorization method:

A.) 8 and 12

Ans.)

2	8	2	12
2	4	2	6
	2		3

Hcf = 2 x 2 = 4

B.) 124, 168 and 210.

2	124	2	168	2	210
2	64	2	84	3	105
	31	2	42	5	35
		3	21		7
			7		

124 = 2 x 2 x 31

168 = 2 x 2 x 2 x 3 x 7

210 = 2 x 3 x 5 x 7

Hcf is = 2

f.) 40,50 and 64

2 | 7 3 | 41
2 | 20 3 | 27
2 | 31 4 | 9
1 2

C.) 96, 112 and 108

2 | 96 2 | 112 2 | 108
2 | 48 2 | 56 2 | 54
2 | 24 2 | 28 3 | 27
2 | 12 2 | 14 3 | 9
2 | 6 7 3
3

Hcf is = 2x2 = 4

g.) 14, 56 and 98

2 | 12 2 | 33
1 2 | 9
2

D.) 78, 98

2 | 98
7 | 7 7 | 49
1 7 | 7
1

7 = 7x1

h.) 16, 48

2 | 1 4 | 21
2 | 1 4 | 12
2

i.) 15, 20

E.) 108 and 144

2 | 98 2 | 62
2 | 62 2 | 32
2 | 42 2 | 22
2 | 34 3
4 | 23
2

2 | 10 2 | 16
2 | 5 2 | 6
2 3

j.) 112, 240, 260

2 | 12 4 | 100 5 | 401
2 | 2 4 | 82 5 | 1
1 4 | 28 1
2