SESSION	**: 15**
CLASS	**: IV**
SUBJECT	**: MATHEMATICS**
CHAPTER NUMBER	**: 10**
CHAPTER NAME	**: FACTORS AND MULTIPLES**
SUBTOPIC	**: HCF BY COMMON DIVISION METHOD, EX-10 D Q.NO. 3**

LEARNING OBJECTIVE

- **Enable the students to understand the process of common division method to find HCF.**

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HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(a) 40 and 60.

2	40, 60
2	20, 30
5	10, 15
	2, 3

Hence, the common factors are **2** , **2** , **5**

HCF of 40 and 60 = **2** × **2** × **5** = **20**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(b) 45 and 225.

5	45, 225
3	9, 45
3	3, 15
	1, 5

Hence, the common factors are **5** , **3** , **3**

HCF of 45 and 225 = **5** × **3** × **3** = **45**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(c) 21, 63 and 189.

3	21, 63, 189
7	7, 21, 63
	1, 3, 9

Hence, the common factors are **3** , **7**

HCF of 21, 63 and 189 = **3** × **7** = **21**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(d) 87 and 145.

29	87, 145
	3, 5

Hence, the common factors are **29**

HCF of 87 and 145 = **29**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(e) 14 and 28.

2	14, 28
7	7, 14
	1, 2

Hence, the common factors are **2** , **7**

HCF of 14 and 28 = **2** × **7** = **14**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(f) 144, 252 and 228.

2	144, 252, 228
2	72, 126, 114
3	36, 63, 57
	12, 21, 19

Hence, the common factors are **2** , **2** , **3**

HCF of 144, 252 and 228 = **2** × **2** × **3** = **12**

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HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(g) 125, 175 and 225.

5	125, 175, 225
5	25, 35, 45
	5, 7, 9

Hence, the common factors are **2** , **5**

HCF of 125, 175 and 225 = **2** × **5** = **10**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(h) 27 and 162.

3	27, 162
3	9, 54
3	3, 18
	1, 6

Hence, the common factors are **3** , **3** , **3**

HCF of 27 and 162 = **3** × **3** × **3** = **27**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

3. Find the HCF of the following by common division method:

(i) 69 and 92.

23	69, 92
	3, 4

Hence, the common factors are **23**

HCF of 69 and 92 = **23**

HCF BY COMMON DIVISION METHOD

Exercise 10(D)

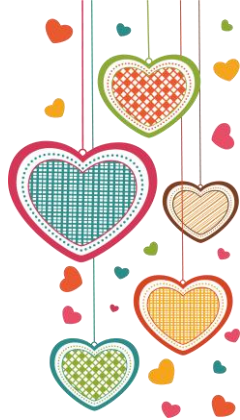
3. Find the HCF of the following by common division method:

(j) 96, 144 and 168.

2	96, 144, 168
2	48, 72, 84
2	24, 36, 42
3	12, 18, 21
	4, 6, 7

Hence, the common factors are **2** , **2** , **2** , **3**

HCF of 125, 175 and 225 = **2** × **2** × **2** × **3** = **24**



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HOME ASSIGNMENT:

- **Complete Exercise – 10(D) Q.NO. 3 in your note book.**

LEARNING OUTCOME:

Students are able to understand the process of common division method to find HCF.

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THANKING YOU

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