

SESSION	: 3
CLASS	: IV
SUBJECT	: MATHEMATICS
CHAPTER NUMBER	: 10
CHAPTER NAME	: FACTORS AND MULTIPLES
SUBTOPIC	: LCM BY PRIME FACTORIZATION
	METHOD, EXERCISE-10 E Q.NO. 2

CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org

Toll Free: 1800 120 2316

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

LEARNING OBJECTIVE

 Enable the students to understand how to find out the LCM by using prime factorization method.



LCM by Prime factorization method:

To find the LCM of two or more numbers, we first find all the **prime factors** of the given numbers and write them one below the other. Take one **factor** from each common group of **factors** and find their product. Multiply the product with other ungrouped **factors**. The resultant is the LCM of given numbers.





LCM by Prime factorization method :

Example : 1 Find the LCM of 9 and 15.







LCM by Prime factorization method :

Example : 2 Find the LCM of 16 and 28.



 $LCM = 2 \times 2 \times 2 \times 2 \times 7 = 112$





LCM by Prime factorization method :

Example : 2 Find the LCM of 32, 48 and 72.





Exercise 10(E)









Exercise 10(E)







Exercise 10(E)

2. Find the LCM of the given numbers by prime factorisation method







 $LCM = 3 \times 7 \times 2 \times 2 \times 3 = 252$



Exercise 10(E)









Exercise 10(E)





LEARNING OUTCOME:

Students are able to understand how to find out the LCM by using prime factorization method..



THANKING YOU ODM EDUCATIONAL GROUP

