FACTORS AND MULTIPLES	MATHEMATICS   CLASS - V
FACTORS AND MULTIPLES	INVITUEINING LEGION

# Chapter-8

# Factors and multiples

## WORKSHEET

#### A. Fill in the blanks :

a) 1, 3, 5 and 15 are called factors of 15.

b) All even numbers are divisible by \_\_\_\_\_

c) 1 is a number which is neither prime nor composite.

d) 18 is a multiple of 3 and 6.

e) Numbers that have only two factors, 1 and the number itself, are called composite

Column - B

ii) infinite (5)

iii) 50 (2)

iv) 7 (1)

1)1(3)

v)2(4)

numbers.

## B. Match the following :

- Column A
- 1. Factor of 35
- 2. Multiple of 5
- 3. Factor of every number
- 4. Smallest prime number
- 5. Factors of a number
- C. Do as directed:



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b) Find the L.C.M. of 16, 28 and 32

Solution:

2 16, 28, 32 a 8, 14, 16 2 4, 7, 8 2 9, 7, 4 a 8, 7, 4 a 9, 7, 8 a 9, 7, 8

c) The H.C.F. of two numbers is 5 and L.C.M. is 60. If one of the numbers is 20, find the other number.

Solution: L.C.M x H.C.F = The other number One number = 13% => The other number = 5 x 60 = 5 x 3 = 15 12049 Hence, The L.C.M of 15, 20 is board H.C.F. of 15 8 20 is 5.

d) Find the greatest number which divides 90 and 405 without leaving a remainder.

Solution: H.C.F. of 90 and 405 = 
$$5 \times 3 \times 3$$
  
 $5|90, 405 = 45$   
 $3|18, 8|$   
 $3|6, 27$   
 $2, 9$ 

e) Three bells of a temple began ringing at 9 a.m. The first bell rings after every 30 minutes and the second one rings after every 45 minutes and the third one rings after every hour. At what time will they ring together again?

solution: The time the first bell range after = 30 minutes The time the second bell range after = 45 minutes The time the third bell range after = 1 hour = 60 minutes The time the third bell range after = 1 hour = 60 minutes All bells range togetherat = L.C.M. of 30,45860 =  $5 \times 3 \times 2 \times 3 \times 2 = 180$  minutes 5|30,45,60 = 60m = 1hr 3|6,9,12 = 180m = 3hr 2|2,3,4 9:00am + 3hr = 12:00amHence, At 19:00 am. bells evill ring together again.

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