WORKSHEET

ch-8- Factors and multiples

A. Fill in the blanks:

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

b) All even numbers are divisible by 2.

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

d) 18 is a ~~factor~~ multiples of 3 and 6.

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

B. Match the following:

column-A	column-B
1. Factors of 35	i) 1
2. Multiple of 5	ii) infinite
3. Factor of every number	iii) 50
4. Smallest prime number	iv) 7
5. ~~Factors~~ of a number	v) 2

multiples

b)

2	16, 28, 32
2	8, 14, 16
4	4, 7, 8
7	1, 7, 2
2	1, 1, 2
	1, 1, 1

L.C.M. $= 2 \times 2 \times 4 \times 7 \times 2 = 224$

c) H.C.F. of two number is 5.
L.C.M. = 60
one number = 20

$$\frac{\text{L.C.M.} \times \text{H.C.F.}}{\text{one number}} = \text{the other number}$$

The other number is $= \frac{60 \times 5}{20} = 15$

The other number is 15

d) H.C.F. of 90 and 405

3	90
3	30
2	10
5	5
	1

5	405
3	81
3	27
3	9
3	3
	1

H.C.F. $= 3 \times 3 \times 5$
$5 \times 3 \times 3 \times 3 \times 3$
$3 \times 3 \times 5 = 45$ (Ans)

C. Three bells of a temple began ringing 9 am. The 1st bell rings after every 30 mins. The 2nd bell rings after every 45 mins. The 3rd bells rings after every 1 hr (60 mins)

L.C.M = 3	30, 45, 60
5	10, 15, 20
2	2, 3, 4
3	1, 3, 2
2	1, 1, 2
	1, 1, 1

L.C.M = 3X5X2X3X2 = 180 mins (3hrs)
(12 pm)

At 12 p.m they will ring together again.