CW
12/10/2021

Ch-8
Worksheet

Date
Page

A. Fill in the blanks.

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

(b) All even numbers are divisible by Two.

(c) One is a number which is neither prime nor composite.

(d) 18 is a ~~factors~~ multiple of 3 and 6.

(e) ~~No Numbers~~ Numbers that have only 2 factors one and the no. itself, are called prime numbers.

B. Match the following:

Ans- HCF of 2 numbers = 5
LCM of 2 numbers = 60
One of the number = 20
Other no. = $\frac{LCM \times HCF}{One\ no.}$

$= \frac{60 \times 5}{20}$

$= \frac{300}{20} = \frac{15}{1} = 15$

So, the other no. is 15.

~~(b) The HCF of of 2 numbers is 5 and LCM is 60. if one of the~~

(d) Find the greatest no. which divides 90 and 105 without leaving a remainder.

Ans-

3	90, 405
3	30, 135
5	10, 45
2	2, 9
3	1, 9
3	1, 3
	1, 1

LCM = 3 × 3 × 5 × 2 × 3 × 3 = 810

The greatest no. of 1 digit = 9

$$
\begin{array}{r|l}
 & 90 \\
\hline
9 & 810 \\
 & -81\downarrow \\
\hline
 & 00 \\
 & -0 \\
\hline
 & 0
\end{array}
$$

So, the greatest is 9.

(e) Three bells of a Temple began ringing at 9:00 A.M. • The first bell rings after 30 minutes and

the second one rings after every 45 minutes and the third one rings after every hr. At what time will they ring together again.

Ans- First bell rings after = 30 mins
Second bell rings after = 45 mins
Third bell rings after = 60 mins
Time they will ring together

= LCM of 30, 45 and 60

3	30, 45, 60
5	10, 15, 20
2	2, 3, 4
2	1, 3, 2
3	1, 3, 1
	1, 1, 1

LCM = 3 X 5 X 2 X 2 X 3 = 180 mins

So, 3 bells will ring at the same time after 180 mins that is after 3 hrs at 12:00 P.M.