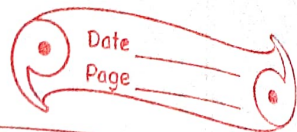


CW  
12/10/2021

Ch-8

## Worksheet



A. Fill in the blanks.

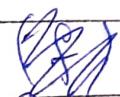
(a) 1, 3, 5 and 15 are called factors of 15.

(b) All even numbers are divisible by Two.

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

(d) 18 is a ~~factor~~<sup>multiple</sup> of 3 and 6.

(e) ~~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. =  $\frac{LCM \times HCF}{\text{one no.}}$   
 $= \frac{60 \times 5}{20} = \frac{300}{20} = 15$

So, the other no. is 15.

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

(d) Find the greatest no. which divides 90 and 405 without leaving a remainder.

Ans-  $3 \overline{) 90, 405}$

$3 \overline{) 30, 135}$

$5 \overline{) 10, 45}$

$2 \overline{) 2, 9}$

$3 \overline{) 1, 9}$

$3 \overline{) 1, 3}$   
 $\quad 1, \quad 1$

$$\text{LCM} = 3 \times 3 \times 5 \times 2 \times 3 \times 3 = 810$$

The greatest no. of 1 digit = 9

$$\begin{array}{r} 90 \\ 9 \overline{) 810} \\ \underline{-81} \phantom{0} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

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 ~~three~~ 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~~  
 = LCM of 30, 45 and 60

$$\begin{array}{r}
 3 \overline{) 30, 45, 60} \\
 5 \overline{) 10, 15, 20} \\
 2 \overline{) 2, 3, 4} \\
 2 \overline{) 1, 3, 2} \\
 3 \overline{) 1, 3, 1} \\
 1, 1, 1
 \end{array}$$

$$LCM = 5 \times 5 \times 2 \times 2 \times 2 = 180$$

So, 3 bells will ring ~~at~~ at the

same time after 180 min.

that is after 3 hrs at ~~12:00 P.M.~~

~~12:00 P.M.~~ 12:00 P.M. •