

(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 multiple of 3 and 6.

(e) Numbers that have only two factors, are called prime numbers.

B. Match the following:

A

B

1. Factors of 35

1

2. Multiple of 8

$\infty$

3. Factor of every no.

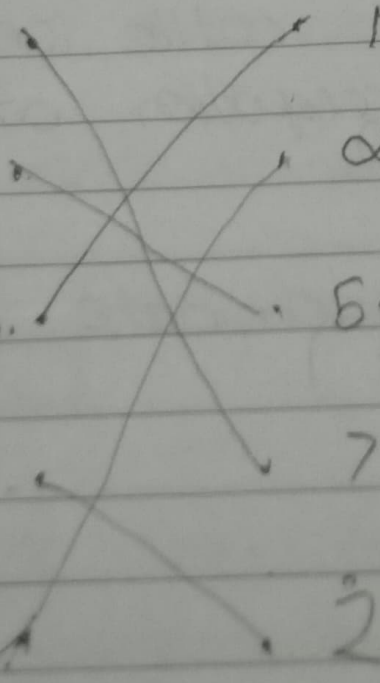
60

4. Smallest prime

7

5. Multiples of a no.

2



$$16 = 1, 2, 4, 8, 16$$

$$24 = 1, 2, 3, 6, 12, 24$$

$$85 = 1, 5, 17, 85$$

$$HCF = 1$$

$$16 = 16, 32, 48, 64, 80, 96, 112, 128, 144, 160, 176,$$

$$24 = 24, 48, 72, 96, 120, 144, 168, 192, 216, 240, 264, 288$$

$$32 = 32, 64, 96, 128, 160, 192, 224, 256, 288,$$

$$LCM = 224$$

Qns Given:

$$HCF = 5$$

$$LCM = 60$$

$$\text{one Number} = 20$$

Find:

We have to find the other numbers.

Solution:

Worksheet - 5011

Solution:

Let the other number be  $x$ .

We know that..

\* \* Product of two numbers = LCM  $\times$  HCF

So,

$\Rightarrow 20 \times x = 60 \times 5$

$\Rightarrow 20 \times x = 300$

$\Rightarrow x = 300 \div 15 = 20$

$\Rightarrow x = 20$  (Ans)

Pr. 2

d) Since No remainder is left, there will be no change in numbers

Solution:

The HCF of 90 and 126 is the answer.

HCF =

$90 = 2 \times 5 \times 3 \times 3$

$108 = 2 \times 2 \times 3 \times 3 \times 3$

$126 = 2 \times 3 \times 3 \times 7$

HCF =  $2 \times 3 \times 3 = 18$

$\therefore 18$  is the greatest number that can divide 90 and 126 without any remainder.

$$\text{Area of triangle ABC} = \frac{1}{2} \times b \times h$$

(b)

(c) They will ring together at every 3 hours since the LCM of 15, 10, and 30 is 30. adding the unit of time makes it 180 minutes which is 3 hours.