

**1. Fill in the blanks:**

**(i) A number having exactly two factors is called a .....**

**Solution:-**

A number having exactly two factors is called a prime number.

**(ii) A number having more than two factors is called a .....**

**Solution:-**

A number having more than two factors is called a composite number.

**(iii) 1 is neither ..... nor .....**

**Solution:-**

1 is neither prime nor composite.

**(iv) The smallest prime number is .....**

**Solution:-**

The smallest prime number is 2.

**(v) The smallest odd prime number is .....**

**Solution:-**

The smallest odd prime number is 3.

**(vi) The smallest composite number is .....**

**Solution:-**

The smallest composite number is 4.

**(vii) The smallest odd composite number is .....**

**Solution:-**

The smallest odd composite number is 9.

**(viii) All prime numbers (except 2) are .....**

**Solution:-**

All prime numbers (except 2) are odd numbers.

**3. State whether the following statements are true (T) or false (F):**

**(i) The sum of three odd numbers is an even number.**

**Solution:-**

False

For example, take three odd numbers 1, 3 and 5.

Then, sum of three odd numbers =  $1 + 3 + 5$   
= 9 is an odd number

**(ii) The sum of two odd numbers and one even number is an even number.**

**Solution:-**

True

For example, take two odd numbers 1, 3 and one even number 4.

Then, sum of two odd numbers and one even number =  $1 + 3 + 4$   
=  $4 + 4$   
= 8 is an even number

**(iii) The product of two even numbers is always an even number.**

**Solution:-**

True

For example, take two even numbers 2, 4

Then, product of two even numbers =  $2 \times 4 = 8$  is an even number.

**(iv) The product of three odd numbers is an odd number.**

**Solution:-**

True

For example, take three odd numbers 1, 3 and 5

Then, product of three odd numbers =  $1 \times 3 \times 5 = 15$  is an odd number.

**(v) If an even number is divided by 2, the quotient is always an odd number.**

**Solution:-**

False

For example, take an even numbers 8

Then, divide an even number by 2 we get =  $8/2$   
= 4 is an even number.

**(vi) All prime numbers are odd.**

**Solution:-**

False

All the prime numbers except 2 are odd.

**(vii) All even numbers are composite.**

**Solution:-**

False

**(viii) Prime numbers do not have any factors.**

**Solution:-**

False

**(ix) A natural number is called a composite number if it has at least one more factor other than 1 and the number itself.**

**Solution:-**

True

**(x) Two consecutive numbers cannot be both prime.**

**Solution:-**

False

**(xi) Two prime numbers are always co-prime numbers.**

**Solution:-**

True

**3. Write all the factors of the following natural numbers:**

**(i) 68**

**(ii) 27**

**(iii) 210**

**Solution:-**

**(i) 68**

The factors of natural number 68 are,

1, 2, 4, 17, 34, 68

**(ii) 27**

The factors of natural number 27 are,

1, 3, 9, 27

**(iii) 210**

The factors of natural number 210 are,

1, 2, 3, 5, 6, 7, 10, 14, 15, 21, 30, 35, 42, 70, 105, 210

**4. Write first six multiples of the following natural numbers:**

**(i) 3**

(ii) 5

(iii) 12

**Solution:-**

(i) 3

The first six multiples of natural number 3 are 3, 6, 9, 12, 15, 18

(ii) 5

The first six multiples of natural number 5 are 5, 10, 15, 20, 25, 30

(iii) 12

The first six multiples of natural number 12 are 12, 24, 36, 48, 60, 72

**5. Match the items in column 1 with the items in column 2:**

Column 1	Column 2
(i) 15	(a) Multiple of 8
(ii) 36	(b) Factor of 30
(iii) 16	(c) Multiple of 70
(iv) 20	(d) Factor of 50
(v) 25	(e) Multiple of 9
(vi) 210	(f) Factor of 20

**Solution:-**

Column 1	Column 2
(i) 15	(b) Factor of 30
(ii) 36	(e) Multiple of 9
(iii) 16	(a) Multiple of 8
(iv) 20	(f) Factor of 20
(v) 25	(d) Factor of 50
(vi) 210	(c) Multiple of 70

**6. Find the common factors of :**

**(i) 20 and 28**

**Solution:-**

First we have to find out the factors of 20 and 28,

The factors of 20 are: 1, 2, 4, 5, 10, 20

The factors of 28 are: 1, 2, 4, 7, 14, 28

Now,

The common factors of 20 and 28 are: 1, 2, 4

**(ii) 35 and 50**

**Solution:-**

First we have to find out the factors of 35 and 50,

The factors of 35 are: 1, 5, 7, 35

The factors of 20 are: 1, 2, 4, 5, 10, 20

Then,

The common factors of 35 and 20 are 1, 5

**(iii) 56 and 120**

**Solution:**

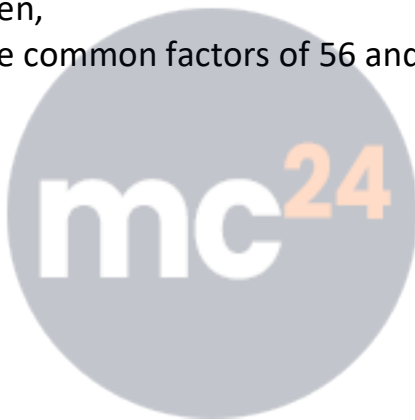
First we have to find out the factors of 56 and 120,

The factors of 56 are: 1, 2, 4, 7, 8, 14, 28, 56

The factors of 120 are: 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, 120

Then,

The common factors of 56 and 120 are 1, 2, 4, 8



**Myclass24**  
Your Class. Your Pace.