

Class 6 Maths
Factors & Multiples

Q1. Fill in the blanks:

- a) 1 is a factor of _____.
- b) A number that has only two factors is called a _____.
- c) The smallest multiple of any number is _____.
- d) All even numbers are multiples of _____.
- e) A number that has more than two factors is called a _____ number.
- f) Every number has atleast _____ factors.
- g) A composite number has more than _____ different factors.
- h) All numbers have a _____ number of factors.
- i) A number for which the sum of all its factors is equal to twice the number is called a _____ number.
- j) _____ is a number that is multiplied by another number to find a product.

Q2. Which of the following statements are correct?

- (i) 1 is a composite number.
- (ii) All the odd numbers are the prime numbers.
- (iii) A composite numbers has at least 3 factors.
- (iv) A number is the greatest factor of itself.

(v) 1 is a factor of every number.

(vi) The multiples of a number are limited.

(vii) A prime number is always even

(viii) A number is either composite or prime.

(ix) A prime number has only two factors.

(x) Every multiple of a number is exactly divisible by the number.

The factor of a non-zero number is either greater than or equal to the number. Is it true?

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Answer**Q1. Fill in the blanks**

a) 1 is a factor of **every number**

Explanation: 1 divides all numbers exactly.

b) A number that has only two factors is called a **prime number**

Factors are 1 and the number itself.

c) The smallest multiple of any number is **the number itself**

(Example: multiples of 5 → 5, 10, 15...)

d) All even numbers are multiples of **2**

e) A number that has more than two factors is called a **composite number**

f) Every number has at least **two** factors

(1 and the number itself)

g) A composite number has more than **two** different factors

h) All numbers have a **finite** number of factors

i) A number for which the sum of all its factors is equal to twice the number is called a **perfect number**

(Example: $6 \rightarrow 1+2+3+6 = 12 = 2 \times 6$)

j) **Factor** is a number that is multiplied by another number to find a product

Q2. Which statements are correct?

(i) 1 is a composite number → **False**

(1 is neither prime nor composite)

(ii) All the odd numbers are prime numbers → **False**

(Example: 9 is odd but not prime)

(iii) A composite number has at least 3 factors → **True**

(iv) A number is the greatest factor of itself → **True**

(v) 1 is a factor of every number → **True**

(vi) The multiples of a number are limited → **False**

(Multiples go on forever)

(vii) A prime number is always even → **False**

(Only 2 is even prime)

(viii) A number is either composite or prime → **False**

(1 is neither)

(ix) A prime number has only two factors → **True**

(x) Every multiple of a number is exactly divisible by the number → **True**

Last Question

The factor of a non-zero number is either greater than or equal to the number. Is it true?

Answer: False

Explanation: Factors are always less than or equal to the number.

Example: Factors of 10 → 1, 2, 5, 10 (none are greater than 10)
