# TeachMeTT

# Factors and Multiples

**Learn • Practice • Excel**

## What are Factors?

Factors are the numbers that divide a number **exactly** (with no remainder).

**Example:**

The factors of 12 are:

**1, 2, 3, 4, 6 and 12**

## What are Multiples?

Multiples are the numbers you get when you **multiply** a number by whole numbers.

**Example:**

The multiples of 5 are:

**5, 10, 15, 20, 25...**

- 5 × 1 = 5
- 5 × 2 = 10
- 5 × 3 = 15
- 5 × 4 = 20
- 5 × 5 = 25

## More Examples

**Factors of 18:**

1, 2, 3, 6, 9, 18

18 is divisible by 1, 2, 3, 6, 9 and 18.

**Multiples of 4:**

4, 8, 12, 16, 20...

These are found by multiplying 4.

## Key Facts to Remember

- Factors are divisors of a number.
- Multiples are products of a number.
- 1 is a factor of every number.
- Every number is a multiple of 1.
- A number has an infinite number of multiples!



## A. Find the Factors

List all the factors for each number.

1. 6 = _____
2. 10 = _____
3. 14 = _____
4. 20 = _____

## B. Find the Multiples

Write the first 5 multiples of each number.

1. 3: _____
2. 6: _____
3. 7: _____
4. 9: _____

## C. True or False?

Read each statement. Circle True or False.

1. 12 is a factor of 24. True False
2. The multiples of 8 are 8, 16, 24... True False
3. 1 is a multiple of every number. True False

## D. Solve the Problem

1. The factors of 15 are 1, 3, 5 and 15. Is 15 a multiple of 3? _____
2. Write a number that has 4 as a factor and is a multiple of 4. _____