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Multiples are Many

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Design sheet for Multiples and Factors Mini Book (use with talking guides)

To find the **multiples** of a number, multiply the number by the counting numbers (1, 2, 3, 4, …) .

Examples:

Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, …

Multiples of 8: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, …

The **common multiples** of two numbers are **all** of the multiples that the two numbers **share**.

Example: Find the common multiples of 4 and 6

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, …

Multiples of 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, …

Common multiples of 4 and 6: 12, 24, 36, 48, 60, …

LCM of 15 and 10: 30

The **Least Common Multiple** (LCM) of two numbers is the **smallest multiple** that the two numbers **share**.

Example: Find the LCM of 15 and 10

Multiples of 15: 15, 30, 45, 60, 75, 90, …

Multiples of 10: 10, 20, 30, 40, 50, 60, 70, 80, 90, …

Common multiples of 15 and 10: 30, 60, 90, …

The **factors** of a number are all of the counting numbers that will divide evenly into the number.

Examples:

Factors of 6: 1, 2, 3, 6

Factors of 9: 1, 3, 9

The **Greatest Common Factor** (GCF) of two numbers is the **largest factor** that the two numbers **share**.

Example: Find the GCF of 16 and 20

Factors of 16: 1, 2, 4, 8, 16

Factors of 20: 1, 2, 4, 5, 10, 20

Common Factors of 16 and 20: 1, 2, 4

GCF of 16 and 20: 4

The **common factors** of two numbers are **all** of the numbers that are factors of **both** numbers.

Example: Find the common factors of 12 and 36

Factors of 12: 1, 2, 3, 4, 6, 12

Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36

Common factors of 12 and 36: 1, 2, 3, 4, 6, 12