

Mathematical Literacy
Notes



Understanding numbers
as digits and Words
in terms of HTU grouping

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Numbers are grouped in threes from right to left starting at the comma to make them easier to read and understand. Each group of three digits represents a different magnitude or "place value," which helps in quickly identifying the scale of the number. These groups are named as follows: Ones, Thousands, Millions, Billions, etc. Each group contains three digits representing the Hundreds, Tens, and Units places (HTU).

Whole numbers

In the table below, the number is 210,987,654,321. It is broken down as follows:

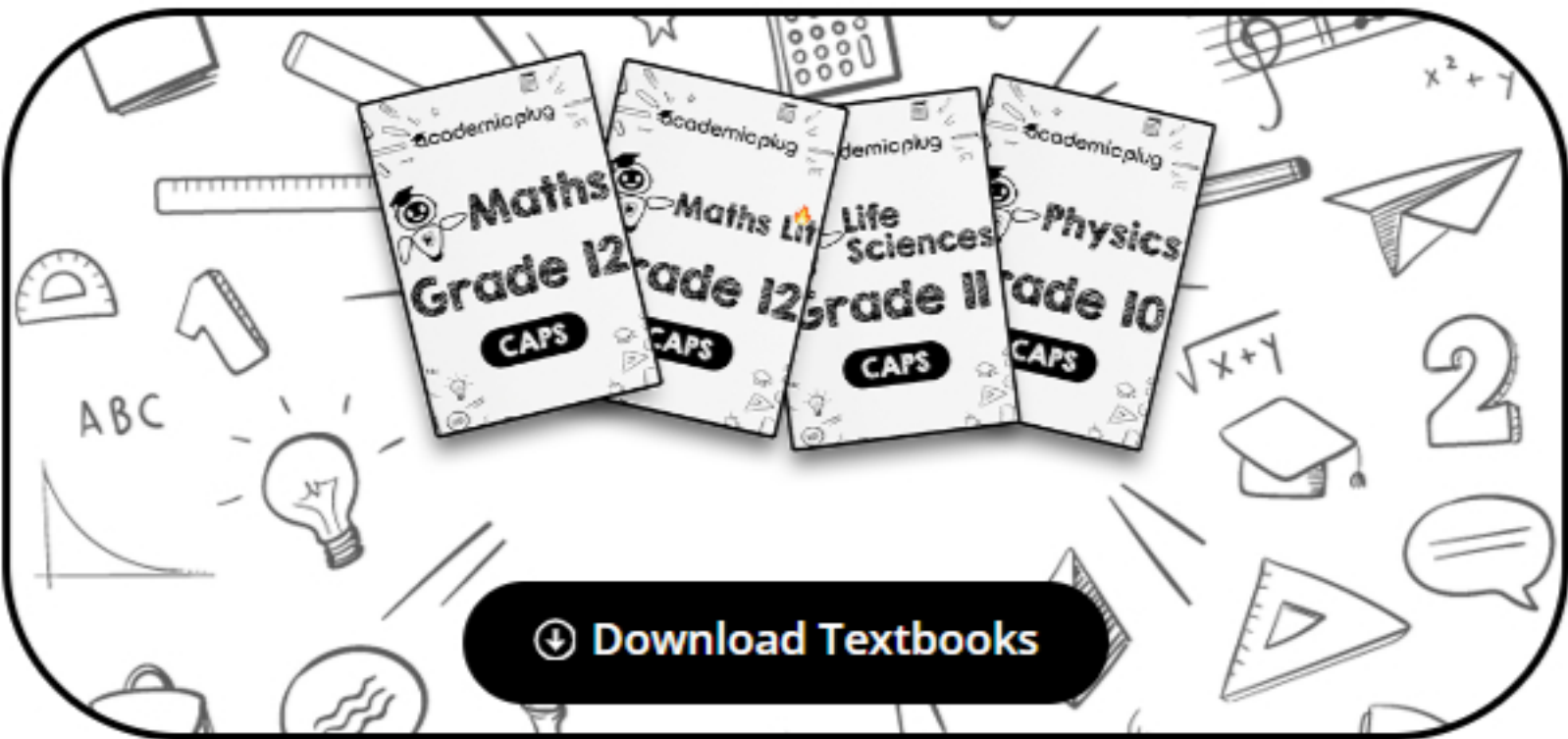
Table with 4 columns: Group Name, Hundreds, Tens, Units. Rows include Ones, Thousands, Millions, and Billions.

- Ones: 321 (Hundreds: 3, Tens: 2, Units: 1)
- Thousands: 654 (Hundreds: 6, Tens: 5, Units: 4)
- Millions: 987 (Hundreds: 9, Tens: 8, Units: 7)
- Billions: 210 (Hundreds: 2, Tens: 1, Units: 0)

Each group of three digits (from right to left) is separated by a comma for readability. The names of these groups help quickly understand the magnitude of the number.

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Fractions

When we write decimal numbers, we use a comma or a decimal point to separate the whole number part from the fractional part. The digits to the right of the decimal point represent parts of a whole, and they decrease in value as you move further to the right.

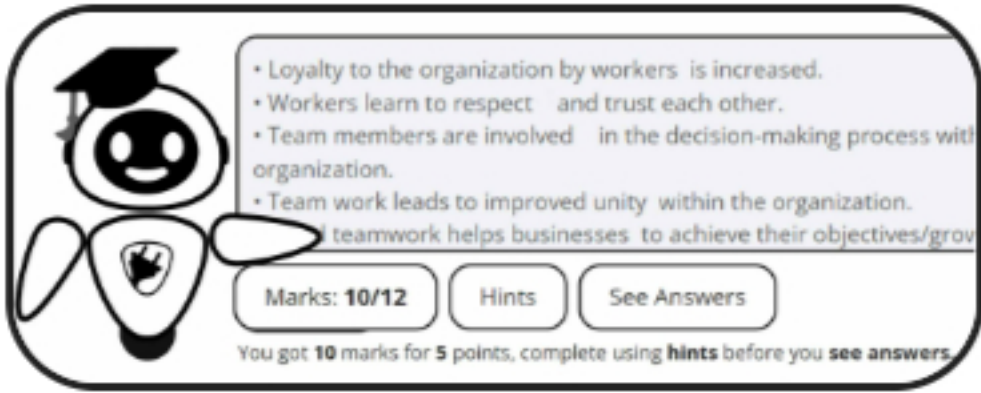
For example, in the number 0.456:

- 4 is in the tenths place (0.4 or 4/10)
- 5 is in the hundredths place (0.05 or 5/100)
- 6 is in the thousandths place (0.006 or 6/1000)

Table with 4 columns: Place Value, Tenths (10ths), Hundredths (100ths), Thousandths (1000ths). Row includes Digit 4, 5, 6.

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Exercise

Group the following number 343,156.789123 and assign place values accordingly

See Answers