5-DIGIT NUMBERS

A BUILDING NUMBERS

Definition 5-Digit Number

In the base 10 system, the place of a digit in a number determines its value. We can show a number like 12 435 in many different ways:
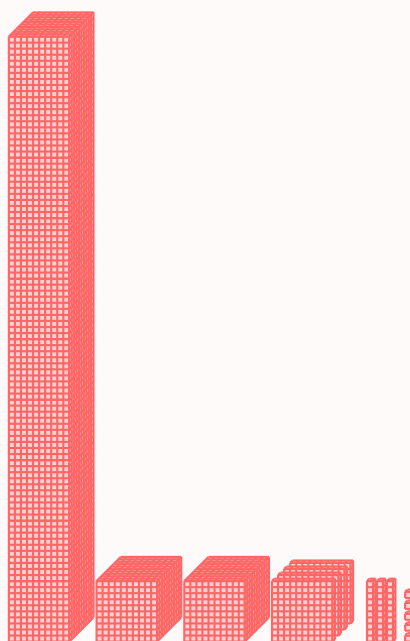
- **With digits**:

$$12\,435$$

- **In expanded form**:

$$1 \text{ ten thousand} + \quad 2 \text{ thousands} + \quad 4 \text{ hundreds} + \quad 3 \text{ tens} + \quad 5 \text{ ones}$$
$$10\,000+ \qquad\qquad 2\,000+ \qquad\qquad 400+ \qquad 30+ \qquad 5$$
$$1 \times 10\,000+ \qquad 2 \times 1\,000+ \qquad 4 \times 100+ \quad 3 \times 10+ \quad 5 \times 1$$

- **With words**: twelve thousand, four hundred thirty-five

- **In a place value table**:

Ten Thousands	Thousands	Hundreds	Tens	Ones
1	2	4	3	5

- **With blocks**:

B ON THE NUMBER LINE

A number line helps us see numbers in order. We can use it to count by ones, or we can make bigger jumps to count faster. With large numbers, we can imagine number lines that jump by hundreds or even thousands at a time!

- Counting by tens: 0, 10, 20, 30...

- Counting by hundreds: 0, 100, 200, 300...

- Counting by thousands: 0, 1 000, 2 000, 3 000...

Definition Number Line

A **number line** is a line that shows numbers in order. Moving right adds by same number.