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THURSDAY

JANUARY

1st Week 002-363

JANUARY 2025

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- 2) Logical objects : truth values, propositions
- 3) Abstract structures : groups, categories, functions.
- 4) Even in physics : constants like the speed of light  $c$  are treated as fixed.

### Historical Shift

- In antiquity and through Euler's time, mathematics = science of quantity.
- From the 19th century (especially with Boole, Cantor, Hilbert), mathematics broadened : it became the science of structures, patterns and relations, not just quantities.

- Now, we cannot measure or determine any quantity, except by considering some other quantity of the same kind as known, and pointing out their mutual relation.

- If it were proposed to determine the quantity of a weight, we should take a certain known