

AUGUST 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

JULY

28th Week • 189-176

2  
0  
2  
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08

TUESDAY

unless you decide how negatives behave under multiplication.

• For example, take distributivity:

$$0 = (1 + (-1)) \cdot (1 + (-1))$$

$$\text{or, } 0 = 1 \cdot 1 + 1 \cdot (-1) + (-1) \cdot 1 + (-1) \cdot (-1)$$

$$\text{or, } 0 = 1 + (-1) + (-1) + [(-1) \cdot (-1)]$$

If we don't decide that  $(-1) \cdot (-1) = +1$ , the rules break down.

So the reason for consistency is: either

• we abandon distributivity, commutativity, etc. (which makes arithmetic weaker), or

• we preserve them by decree — even if the intuition feels artificial.

2. The properties we demand from multiplication.