

16 Apr '25

→ HW: Fix previous HW using divisibility rules (AI)

→ HW: Try to find an easier way to check the last digit of a power

Eg:

$$237456^{347}$$

$$\text{Last digit} = 6$$

Eg:

$$23^3 = 23 \times 23 \times 23$$

$$(abc9) \times (23)$$

$$\underline{7}$$

Find tricks/  
rules for  
last digits  
powers of  
numbers  
ending with  
0, 1, 2, 3, ..., 9  
in the  
units  
place.

Eg: 236<sup>1</sup> ends with 6

n2	"	6
n3	"	6
n4	"	6
n5	"	6
n <sup>..</sup> xi	"	6

3452<sup>1</sup>

n2	"	2	}	4	
n3	"	4			
n4	"	8			
n5	"	6			
n6	"	2	}	4	79 % 4 = 3
n7	"	4			
n8	"	8			
n <sup>..</sup> xi	"	6			
n <sup>..</sup> xi	"	8	← last digit		