

DATE 2024.8

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NO. 三校教44  
三校教作32

永中鍾定彬

ex.7 1~9999 正整数中

1) 含有5的数共有几个

 $1 \sim 9 \rightarrow 1$  $10 \sim 19 \rightarrow 1$  $\vdots$  $40 \sim 49 \rightarrow 1$  $50 \rightarrow 59 \rightarrow 10$  $60 \rightarrow 69 \rightarrow 1$  $\vdots$  $90 \rightarrow 99 \rightarrow 1$  $1 \sim 99 \rightarrow 19$  $100 \sim 199 \rightarrow 19$  $\vdots$  $1 \times 9 + 10 = 19$   $400 \sim 499 \rightarrow 19$  $500 \sim 599 \rightarrow 100$  $600 \sim 699 \rightarrow 19$  $\vdots$  $900 \sim 999 \rightarrow 19$  $19 \times 9 + 100 = 271$  $1 \sim 4999 \rightarrow 271 \times 5$  $5000 \sim 5999 \rightarrow 1000$  $6000 \sim 9999 \rightarrow 271 \times 4$  $271 \times 9 + 1000 = 3439 \#$ 

2) 1写到9999共写了几个5

 $1 \sim 9 \rightarrow 1$  $10 \sim 19 \rightarrow 1$  $\vdots$  $40 \sim 49 \rightarrow 1$  $50 \sim 59 \rightarrow 11$  $60 \sim 69 \rightarrow 1$  $\vdots$  $90 \sim 99 \rightarrow 1$  $1 \sim 99 \rightarrow 20$  $100 \sim 199 \rightarrow 20$  $\vdots$  $400 \sim 499 \rightarrow 20$  $500 \sim 599 \rightarrow 120$  $600 \sim 699 \rightarrow 20$  $\vdots$  $900 \sim 999 \rightarrow 20$  $20 \times 9 + 120 = 300$  $1 \sim 4999 \rightarrow 300 \times 5$  $5000 \sim 5999 \rightarrow 1300$  $6000 \sim 9999 \rightarrow 300 \times 4$  $300 \times 9 + 1300 = 4000 \#$