W I Z E R T

Question: The smallest digit at the hundred thousands place of the number __95218 that will make the number divisible by 9 is _____ .

Answer:

By divisibility test of 9

If the sum of the digits of the number is divisible by 9 then the original number is divisible by 9.

suppose the digit be x.

$x + 9 + 5 + 2 + 1 + 8 = 25 + x$

to make $x + 25$ divisible by 9

$x + 25 = 27, 36, ...$

To get smallest digit $x + 25 = 27$

$\Rightarrow x = 2$.

Hence the number be 295218.