To write numbers more mathematically after $\times$ or $\div$ by 10 or 100 or 1000 use these two rules
(i) Look at the digits before (to the left of) the decimal point: Are there any 1 to 9 digits?

Yes: Cross out any 0 digits before (to the left of) the first (most left) 1 to 9 digit

$$
0.003 \rightarrow+\infty
$$

No: Keep one 0 and cross out the rest OR write 0 if there is no 0

(ii) Look at the digits after (to the right of) the decimal point: Are there any 1 to 9 digits?

Yes: Cross out any 0 digits after (to the right of) the last (most right) 1 to 9 digit

$$
6.070 \rightarrow 6.079
$$

No: Cross out the decimal point and any 0 digits

$$
80.00 \rightarrow 80 \rightarrow
$$

To write numbers more mathematically after $\times$ or $\div$ by 10 or 100 or 1000 use these two rules
(i) Look at the digits before (to the left of) the decimal point: Are there any 1 to 9 digits?

Yes: Cross out any 0 digits before (to the left of) the first (most left) 1 to 9 digit

$$
0.000 \rightarrow \infty
$$

No: Keep one 0 and cross out the rest OR write 0 if there is no 0

$$
0.00 .3 \rightarrow 4.450 .45
$$

(ii) Look at the digits after (to the right of) the decimal point: Are there any 1 to 9 digits?

Yes: Cross out any 0 digits after (to the right of) the last (most right) 1 to 9 digit

$$
6 \curvearrowleft 070 \rightarrow 6.079
$$

No: Cross out the decimal point and any 0 digits

$$
80 \overleftrightarrow{0} 0 \rightarrow 80
$$

