

Change the following to standard form.

1.  $8.93 \times 10^4$

$\begin{array}{cccc} \square & \square & \square & \square \\ 8 & 9 & 3 & 0 \\ \hline 1 & 2 & 3 & 4 \end{array}$

89,300

2.  $1.9 \times 10^{-6}$

$\begin{array}{ccccccc} \square & \square & \square & \square & \square & \square & \square \\ 0 & 0 & 0 & 0 & 0 & 1 & 9 \\ \hline 6 & 5 & 4 & 3 & 2 & 1 & \end{array}$

0.000019

3.  $4.3 \times 10^4$

$\begin{array}{cccc} \square & \square & \square & \square \\ 4 & 3 & 0 & 0 \\ \hline 1 & 2 & 3 & 4 \end{array}$

43,000

4.  $-3.92 \times 10^{-5}$

$\begin{array}{cccc} \square & \square & \square & \square \\ -0 & 0 & 0 & 0 \\ \hline 5 & 4 & 3 & 2 & 1 \end{array}$

-0.0000392

5.  $-9.2 \times 10^3$

$\begin{array}{ccc} \square & \square & \square \\ -9 & 2 & 0 \\ \hline 1 & 2 & 3 \end{array}$

-9,200

6.  $2 \times 10^{-3}$

$\begin{array}{ccc} \square & \square & \square \\ 0 & 0 & 2 \\ \hline 3 & 2 & 1 \end{array}$

0.002

7.  $4.2986 \times 10^{10}$

$\begin{array}{ccccccccccc} \square & \square & \square & \square & \square & \square & \square & \square & \square & \square & \square \\ 4 & 2 & 9 & 8 & 6 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & \end{array}$

42,986,000,000

8.  $-2.3 \times 10^{-7}$

$\begin{array}{ccccccc} \square & \square & \square & \square & \square & \square & \square \\ -0 & 0 & 0 & 0 & 0 & 0 & 2 \\ \hline 7 & 6 & 5 & 4 & 3 & 2 & 1 \end{array}$

-0.00000023

9.  $8.246 \times 10^{-2}$

$\begin{array}{ccc} \square & \square & \square \\ 0 & 8 & 2 \\ \hline 2 & 1 & \end{array}$

0.08246

Change the following into scientific notation.

10. 9,382,000,000

$\begin{array}{ccccccccccc} \square & \square & \square & \square & \square & \square & \square & \square & \square & \square & \square \\ 9 & 3 & 8 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 9 & 8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 & \end{array}$

$9.382 \times 10^9$

11. 0.00000392

$\begin{array}{ccccccc} \square & \square & \square & \square & \square & \square & \square \\ 0 & 0 & 0 & 0 & 0 & 3 & 9 \\ \hline 1 & 2 & 3 & 4 & 5 & 6 & \end{array}$

$3.92 \times 10^{-6}$

12. 8,298,000,000

$\begin{array}{ccccccccccc} \square & \square & \square & \square & \square & \square & \square & \square & \square & \square & \square \\ 8 & 2 & 9 & 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 9 & 8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 & \end{array}$

$8.298 \times 10^9$

13. 0.000002731

$\begin{array}{ccccccc} \square & \square & \square & \square & \square & \square & \square \\ 0 & 0 & 0 & 0 & 0 & 2 & 7 \\ \hline 1 & 2 & 3 & 4 & 5 & 6 & \end{array}$

$2.731 \times 10^{-6}$

14. 0.09588

$\begin{array}{cc} \square & \square \\ 0 & 9 \\ \hline 1 & 2 \end{array}$

$9.588 \times 10^{-2}$

15. 73,980,000

$\begin{array}{ccccccc} \square & \square & \square & \square & \square & \square & \square \\ 7 & 3 & 9 & 8 & 0 & 0 & 0 \\ \hline 7 & 6 & 5 & 4 & 3 & 2 & 1 \end{array}$

$7.398 \times 10^7$

16. 330,700,000,000

$\begin{array}{ccccccccccc} \square & \square & \square & \square & \square & \square & \square & \square & \square & \square & \square \\ 3 & 3 & 0 & 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 11 & 10 & 9 & 8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 \end{array}$

$3.307 \times 10^{11}$

17. 0.00005421

$\begin{array}{ccccc} \square & \square & \square & \square & \square \\ 0 & 0 & 0 & 0 & 5 \\ \hline 1 & 2 & 3 & 4 & 5 \end{array}$

$5.421 \times 10^{-5}$

18. 0.000952

$\begin{array}{cccc} \square & \square & \square & \square \\ 0 & 0 & 0 & 9 \\ \hline 1 & 2 & 3 & 4 \end{array}$

$9.52 \times 10^{-4}$