

8.4 Scientific Notation

National Debt

18,136,000,000,000

our pop 310,000,000

Sci Not

#pkw
↓
13

1.8136 x 10

1.8136 [2nd] [x⁻¹] 13

1.8136 * 10 [^] 13

58,503.22

Form of: $C \times 10^n$

$C = \#$ between 1 & 9
 $1 \leq C \leq 9$

n is an integer.

Tells how you move decimal pt

* If the # is big, n is positive
 $361,000 \rightarrow 3.61 \times 10^5$

* If the # is tiny, n is negative
 $.00071 \rightarrow 7.1 \times 10^{-4}$

Write in Sci Notation

① $47,000,000$
 4.7×10^7

② 0.00000485
 4.85×10^{-6}

Simplify on Calculator

$$\textcircled{3} (8.5 \times 10^7)(1.2 \times 10^6)$$

$\textcircled{4}$

$$\frac{1.4 \times 10^{-6}}{7.8 \times 10^{-3}}$$

* look for EE

$$EE = \times 10$$

=

=

Homework

Convert to Sci:

⑥ 0.005

⑧ 0.00406

⑪ 1,060,000,000

Write as normal #

⑫ 7.5×10^7

⑳ 4.709×10^6

㉔ 2.23×10^{-6}

③⑨ $(4.4 \times 10^3)(1.5 \times 10^7)$

④② $\frac{6 \times 10^{-3}}{8 \times 10^{-6}}$

④⑤ $(5 \times 10^{-8})^3$