# P.S. \#2.3 - multiplying and Dividing Mumbers in Scientific hotation 

 Name: $\qquad$ Class: $\qquad$Convert each number to scientific notation.
1.) 4523
2.) 0.00000893
3.) $0.051 \cdot 10^{8}$
4.) $872 \cdot 10^{-4}$

Convert each number to standard notation.
5.) $2.51 \cdot 10^{-5}$
6.) $3.76 \cdot 10^{4}$

Rewrite each number as the product of a coefficient and $10^{4}$.
7.) $8.4 \cdot 10^{5}$
8.) $9.36 \cdot 10^{6}$

Rewrite each number as the product of a coefficient and $10^{-3}$.
9.) $7.62 \cdot 10^{-2}$
10.) $5.1 \cdot 10^{-5}$

Perform the following operations.
11.) $\left(3.7 \cdot 10^{8}\right)\left(4 \cdot 10^{5}\right)$
12.) $\frac{3.2 \cdot 10^{7}}{8 \cdot 10^{3}}$
13.) $\frac{6 \cdot 10^{9}}{2 \cdot 10^{5}}$
14.) $\left(2 \cdot 10^{-4}\right)\left(8.1 \cdot 10^{-1}\right)$
15.) $\left(7 \cdot 10^{5}\right)\left(9 \cdot 10^{-4}\right)$
16.) $\frac{5.2 \cdot 10^{4}}{6.5 \cdot 10^{9}}$
17.) $\left(2.5 \cdot 10^{-4}\right)\left(3.1 \cdot 10^{7}\right)$
18.) $\left(6 \cdot 10^{8}\right)\left(45 \cdot 10^{11}\right)$
19.) $\frac{8 \cdot 10^{7}}{0.2 \cdot 10^{-6}}$
20.) $\left(123 \cdot 10^{-12}\right)\left(82 \cdot 10^{-45}\right)$

