P.S. #2.3 - Multiplying and Dividing Numbers in Scientific Notation

Name: ______ Class: _____

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 10⁴.

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.)
$$(3.7 \cdot 10^8)(4 \cdot 10^5)$$

12.)
$$\frac{3.2 \cdot 10^7}{8 \cdot 10^3}$$

13.)
$$\frac{6 \cdot 10^9}{2 \cdot 10^5}$$

14.) $(2 \cdot 10^{-4})(8.1 \cdot 10^{-1})$

15.)
$$(7 \cdot 10^5)(9 \cdot 10^{-4})$$

 $16.) \ \frac{5.2 \cdot 10^4}{6.5 \cdot 10^9}$

17.)
$$(2.5 \cdot 10^{-4})(3.1 \cdot 10^{7})$$

18.) $(6 \cdot 10^8) (45 \cdot 10^{11})$

$$19.) \ \frac{8 \cdot 10^7}{0.2 \cdot 10^{-6}}$$

20.) $(123 \cdot 10^{-12})(82 \cdot 10^{-45})$