

Multiplying and Dividing Scientific Notation

Date _____ Period _____

Simplify. Write each answer in scientific notation.

1) $(9.5 \times 10^6)(1.83 \times 10^4)$

2) $(4.8 \times 10^4)(7 \times 10^6)$

3) $(1.15 \times 10^4)(3.12 \times 10^0)$

4) $(4.1 \times 10^2)(6.97 \times 10^5)$

5) $(9.7 \times 10^6)(5.2 \times 10^{-3})$

6) $(2.67 \times 10^1)(8.5 \times 10^6)$

7) $(7.92 \times 10^1)(1.9 \times 10^{-4})$

8) $(2.22 \times 10^2)(6.13 \times 10^{-3})$

9) $(2 \times 10^{-4})(5 \times 10^{-6})$

10) $(1.7 \times 10^{-6})(1.8 \times 10^{-6})$

$$11) \frac{3.98 \times 10^0}{8 \times 10^{-3}}$$

$$12) \frac{2.1 \times 10^{-5}}{6 \times 10^3}$$

$$13) \frac{4 \times 10^3}{8.8 \times 10^{-3}}$$

$$14) \frac{3 \times 10^{-1}}{1.3 \times 10^5}$$

$$15) \frac{1.85 \times 10^{-1}}{7 \times 10^{-5}}$$

$$16) \frac{8.5 \times 10^0}{2.74 \times 10^1}$$

$$17) \frac{1.4 \times 10^{-6}}{3.94 \times 10^1}$$

$$18) \frac{4.7 \times 10^{-6}}{1.2 \times 10^5}$$

$$19) \frac{5 \times 10^6}{9 \times 10^1}$$

$$20) \frac{6 \times 10^3}{5.8 \times 10^{-2}}$$

Answers to Multiplying and Dividing Scientific Notation (ID: 1)

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|----------------------------|-----------------------------|---------------------------|----------------------------|
| 1) 1.739×10^{11} | 2) 3.36×10^{11} | 3) 3.588×10^4 | 4) 2.858×10^8 |
| 5) 5.044×10^4 | 6) 2.27×10^8 | 7) 1.505×10^{-2} | 8) 1.361×10^0 |
| 9) 10×10^{-10} | 10) 3.06×10^{-12} | 11) 4.975×10^2 | 12) 3.5×10^{-9} |
| 13) 4.545×10^5 | 14) 2.308×10^{-6} | 15) 2.643×10^3 | 16) 3.102×10^{-1} |
| 17) 3.553×10^{-8} | 18) 3.917×10^{-11} | 19) 5.556×10^4 | 20) 1.034×10^5 |