

Name _____

Multiplying Exponents

Simplify the following numbers and write the answer in scientific notation.

1) $(5.2 \times 10^3) \times (3.4 \times 10^2)$	= <u>1.768×10^6</u>
2) $(6.3 \times 10^4) \times (5.5 \times 10^6)$	= <u>3.465×10^{11}</u>
3) $(12.2 \times 10^5) \times (4.3 \times 10^3)$	= <u>5.246×10^9</u>
4) $(25.7 \times 10^2) \times (4.9 \times 10^7)$	= <u>1.2593×10^{11}</u>
5) $(7.3 \times 10^{-3}) \times (5.5 \times 10^5)$	= <u>4.015×10^3</u>
6) $(8.2 \times 10^{-8}) \times (4.2 \times 10^9)$	= <u>3.444×10^2</u>
7) $(9.3 \times 10^4) \times (5.7 \times 10^{-7})$	= <u>5.301×10^{-2}</u>
8) $(8.25 \times 10^6) \times (14.6 \times 10^{-2})$	= <u>1.2045×10^6</u>
9) $(7.4 \times 10^4) \times (3.2 \times 10^{-7})$	= <u>2.368×10^{-2}</u>
10) $(8.2 \times 10^{-3}) \times (6.23 \times 10^5)$	= <u>5.1086×10^3</u>
11) $(5.3 \times 10^6) \times (4.2 \times 10^2)$	= <u>2.226×10^9</u>
12) $(3.2 \times 10^5) \times (9.3 \times 10^{-8})$	= <u>2.976×10^{-2}</u>