

## MULTIPLYING AND DIVIDING WITH SCIENTIFIC NOTATION

In 1-6, find each product or quotient. Record answers in both scientific and standard notation.

<p>1. <math>(4.3 \times 10^{-3})(2 \times 10^{-2})</math></p> <p>Scientific: _____ Standard: _____</p>	<p>2. <math>(8 \times 10^{-3})(0.0003)</math></p> <p>Scientific: _____ Standard: _____</p>	<p>3. <math>(3.5 \times 10^4)(2 \times 10^3)</math></p> <p>Scientific: _____ Standard: _____</p>
<p>4. <math>\frac{1.2 \times 10^8}{4 \times 10^3}</math></p> <p>Scientific: _____ Standard: _____</p>	<p>5. <math>\frac{5,000,000}{2.5 \times 10^3}</math></p> <p>Scientific: _____ Standard: _____</p>	<p>6. <math>\frac{9 \times 10^{11}}{1.5 \times 10^7}</math></p> <p>Scientific: _____ Standard: _____</p>

Apply your knowledge of operations with scientific notation to answer 7-8.

<p>7. There are approximately <math>1.2 \times 10^8</math> households in the U.S. If the average household uses 400 gallons of water each day, what is the total number of gallons of water used by households in the U.S. each day?</p> <p>Scientific: _____ Standard: _____</p>	<p>8. The population of China is about <math>1.4 \times 10^9</math> people, while the population of South Korea is approximately 50,000,000 people. How many times greater is the population of China than the population of South Korea?</p> <p>Scientific: _____ Standard: _____</p>
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