

Name: _____ Period: _____ Date: _____

Unit 8B
Scientific Notation Test - Quiz 3 Part 1

This is the multiple-choice section of your test. It is worth 100 points. Read each question thoroughly. Choose the best answer. Answer by filling in the correct bubble on a scan-tron sheet.

- Write 6.37×10^{-2} in standard form.
 - .00637
 - .0637
 - 637
 - 63700
- Which is the best example of a number written in scientific notation?
 - $.5 \times 10^5$
 - .1254
 - 5.367×10^{-3}
 - 12.5×10^2
- $5 \times 10^4 \div 2.5 \times 10^2 =$
 - 2×10^2
 - 12.5×10^2
 - $.5 \times 10^6$
 - 5×10^6
- $2.1 \times 10^{-3} \times 2 \times 10^2 =$
 - 4.2×10^{-6}
 - 4.2×10^{-5}
 - 4.2×10^{-1}
 - 4.2×10^1
- $2.5 \times 10^4 - 1.5 \times 10^3 =$
 - 1×10^1
 - 1×10^7
 - 2.35×10^4
 - 2.35×10^7
- $3 \times 10^4 + 2.5 \times 10^5 =$
 - $.5 \times 10^5$
 - 2.8×10^5
 - 3.25×10^5
 - 5.5×10^9
- What is 4.01×10^0 written in standard form?
 - 0.401
 - 4.001
 - 4.01
 - 40.1
- What is 0.000058 written in scientific notation?
 - 5.8×10^{-6}
 - 5.8×10^{-5}
 - 5.8×10^5
 - 5.8×10^6
- What is 6.92×10^{-3} written in standard form?
 - 0.000692
 - 0.00692
 - 0.0692
 - 0.692

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AP® & Electives

88 - Lesson 2 Quiz #3 Part 2

Career & Technology

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Exponents and Exponential Functions

Math

Click the button next to the response that best answers the question.

Science

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1. Astronomers measure large distances in light-years. One light-year is the distance that light can travel in one year, or approximately 5,880,000,000,000 miles. If a star is 12.5 light-years from Earth, which expression in scientific notation correctly represents how far the star is from Earth?

- 73.5×10^{12} miles
- 7.35×10^{13} miles
- 5.90×10^{12} miles
- 7.80×10^{13} miles

2. Write 0.00798 in scientific notation.

- 798×10^{-5}
- 0.798×10^{-4}
- 7.98×10^{-3}
- 0.798×10^{-2}

3. Which list has the numbers in order from least to greatest?

- $5.4 \times 10^3, 4.5 \times 10^4, 5.4 \times 10^4$
- $5.4 \times 10^3, 5.4 \times 10^4, 4.5 \times 10^4$
- $5.4 \times 10^4, 5.4 \times 10^3, 4.5 \times 10^4$
- $4.5 \times 10^4, 5.4 \times 10^3, 5.4 \times 10^4$

4. Which number is NOT written in scientific notation?

- 2.567×10^{-2}
- 6.7×10^2
- 15.5×10^4
- 3×10^{-10}


5. Simplify $5(2.7 \times 10^{-4})$. Write the answer using scientific notation.

- 13.5×10^{-2}
- 1.35×10^{-3}
- 13.5×10^{-4}
- 1.35×10^{-5}

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