Lesson 7.3 Practice: Scientific Notation

School Launch · Algebra I · Unit 7: Exponents and Exponential Functions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Write 0.0000065 in scientific notation. EASY

2. Write $170{,}000$ in scientific notation. EASY

3. Write $28{,}000$ in scientific notation. EASY

4. Compute and write in scientific notation (round to 3 significant digits): $(2.3 \times 10^{8}) \times (1.4 \times 10^{5})$.

MEDIUM

5. Compute and write in scientific notation (round to 3 significant digits): $(3.6 \times 10^{5}) \times (1.9 \times 10^{1})$.

MEDIUM

6. Compute and write in scientific notation (round to 3 significant digits): $(1.9 \times 10^{6}) \times (1.5 \times 10^{-4})$.

MEDIUM

7. Compute and write in scientific notation (round to 3 significant digits): $(1.7 \times 10^{3}) \times (3.5 \times 10^{-5})$.

MEDIUM

8. Compute and write in scientific notation (round to 3 significant digits): $(4.6 \times 10^{4}) \div (1.3 \times 10^{-2})$.

HARD

9. Compute and write in scientific notation (round to 3 significant digits): $(1.6 \times 10^{2}) \div (4.8 \times 10^{-1})$.

HARD

10. Compute and write in scientific notation (round to 3 significant digits): $(1.5 \times 10^{3}) \div (2.7 \times 10^{-2})$.

HARD