

Name: _____

Tell whether each number is written correctly in scientific notation. If incorrectly written, state the reason.

1 $10 \cdot 10^2$

2 $0.99 \cdot 10^{12}$

3 $1.4 \cdot 10^2$

4 $0.4 \cdot 10^{25}$

Write each number in scientific notation

5 714,000

6 0.00087

Write each number in standard form

7 $3.46 \cdot 10^2$

8 $5.4 \cdot 10^4$

Write each number in standard form

9 $2.44 \cdot 10^3 + 1.9 \cdot 10^5$

10 $8.1 \cdot 10^5 - 2.8 \cdot 10^4$

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Extra Credit

A geologist measured the thickness of two layers of minerals in a rock formation to be 9.7×10^{-5} meters and 3.8×10^{-6} meters.

What is the total thickness of the two layers of minerals?

- A) 1.008×10^{-11} meters
- B) 1.008×10^{-6} meters
- C) 1.008×10^{-4} meters
- D) 1.008×10^{-1} meters