

PRACTICE

Write each number in scientific notation.

1. 58,927

$$5.8927 \times 10^4$$

3. 0.000487

$$4.87 \times 10^{-4}$$

5. 0.000059

$$5.9 \times 10^{-5}$$

7. 13,300

$$1.33 \times 10^4$$

Write each number in standard notation.

9. 4×10^5

$$400,000$$

11. 8.3×10^{-4}

$$.00083$$

13. 2.97×10^{-2}

$$.0297$$

15. 8.456×10^7

$$84560,000$$

Circle the correct answer.

17. 8×10^5 is 2/20/200 2,000 times as great as 4×10^2 .

19. 4×10^{-5} is 0.02 0.2/20 times as great as 2×10^{-4} .

21. The mass of a proton is about 1.7×10^{-24} g. The mass of a neutron is about the same as a proton. The nucleus of an atom of carbon has 6 protons and 6 neutrons. The mass of the nucleus is about 2×10^{-26} units. Circle the best choice for the units this measurement is given in: g/kg/tons

2. The air distance between Los Angeles, California, and New York City, New York, is about 3.9×10^3 units. Circle the best choice for the units this measurement is given in: cm/m/km

2. 1,304,000,000

$$1.304 \times 10^9$$

4. 0.000028

$$2.8 \times 10^{-5}$$

6. 6,730,000

$$6.73 \times 10^6$$

8. 0.0417

$$4.17 \times 10^{-2}$$

10. 1.8499×10^9

$$1,849,900,000$$

12. 3.582×10^{-6}

$$.000003582$$

14. 6.41×10^3

$$6,410$$

16. 9.06×10^{-5}

$$.0000906$$

$$\begin{aligned} 12 &\cdot 1.7 \times 10^{-24} \\ &2.04 \times 10^{-24} \\ &2.04 \times 10^{-23} \end{aligned}$$

$$\begin{aligned} 1g &= .001 kg \\ 1g &= 1 \times 10^{-3} \\ 2.04 \cdot 1 \times 10^{-23} &\times 10^{-3} \\ &(2.04 \times 10^{-26}) kg \end{aligned}$$