

More About Place Value

Use exponents to write each number in expanded form.

1. 9,106

2. 102,436

Write each number in standard form.

3. $(1 \times 10^3) + (7 \times 10^2) + (8 \times 10^1) + (2 \times 10^0)$ _____

4. $(2 \times 10^4) + (8 \times 10^2) + (1 \times 10^1) + (1 \times 10^0)$ _____

5. $(3 \times 10^5) + (1 \times 10^4) + (5 \times 10^3) + (9 \times 10^1) + (2 \times 10^0)$ _____

6. $5^5 = 3,125$

$5^4 = 625$

$5^3 = 125$

$5^2 = \square$

$5^1 = \square$

$5^0 = \square$

7. $6^5 = 7,776$

$6^4 = 1,296$

$6^3 = \square$

$6^2 = \square$

$6^1 = \square$

$6^0 = \square$

8. $7^5 = 16,807$

$7^4 = 2,401$

$7^3 = \square$

$7^2 = \square$

$7^1 = \square$

$7^0 = \square$

Algebra • Equations What is the value of n in each equation?

9. $7,000 = n \times 10^3$

10. $n = 4 \times 3^2$

11. $500 = 5 \times 10^n$

12. $n = 9 \times 10^4$

13. Which number is equal to $(5 \times 10^5) + (2 \times 10^4) + (4 \times 10^3) + (3 \times 10^1) + (5 \times 10^0)$?

A 524,350

C 52,435

B 524,035

D 52,350

14. There are 86,400 seconds in a day. Use exponents to write this number in expanded form.
