Try It Write the number in scientific notation.

1. 50,000
5×10^4

2. 25,000,000
2.5×10^7

3. 683
6.83×10^2

4. 0.005
5×10^{-3}

5. 0.00000033
3.3×10^{-7}

6. 0.000506
5.06×10^{-4}

Key Idea

Writing Numbers in Standard Form

The absolute value of the exponent indicates how many places to move the decimal point.

- If the exponent is negative, move the decimal point to the left.
- If the exponent is positive, move the decimal point to the right.

Example 2 Writing Numbers in Standard Form

a. **Write 3.22×10^{-4} in standard form.**

.0003,22

$3.22 \times 10^{-4} = \underbrace{0.000322}_{4}$ Move the decimal point $|-4| = 4$ places to the left.

b. **Write 7.9×10^5 in standard form.**

$7.9 \times 10^5 = \underbrace{790{,}000}_{5}$ Move the decimal point $|5| = 5$ places to the right.

7.90000

Try It Write the number in standard form.

7. 6×10^7
60000000
60,000,000

8. 9.9×10^{-5}
.00009.9
.000099

9. 1.285×10^4
1.2850
12,850

In-Class Practice

1 I don't understand yet. 2 I can do it with help. 3 I can do it on my own. 4 I can teach someone else.

WRITING NUMBERS IN SCIENTIFIC NOTATION Write the number in scientific notation.

10. 675,000,000

11. 0.000000084

12. 0.000012001

GO DIGITAL