

Scientific Notation Practice

Scientific notation is a way to write really big or really small numbers more easily.

GENTLE START

Fill in the blank to make each statement true.

- 1 Scientific notation consists of _____ factors.
- 2 In scientific notation, the first factor must be greater than or equal to _____ and less than _____.
- 3 The second factor in scientific notation is a power of _____.
- 4 A positive exponent in scientific notation means the number is _____ than one.
- 5 A negative exponent in scientific notation means the number is _____ than one.

STEADY CLIMB

Write each number in Scientific Notation.

- 6 $6,340,000 =$ _____
- 7 $85,000,000 =$ _____
- 8 $.0043 =$ _____
- 9 $12,000,000 =$ _____

Write each number in Standard Form.

- 10 $3.4 \times 10^5 =$ _____
- 11 $1.2 \times 10^3 =$ _____
- 12 $6.78 \times 10^{-4} =$ _____
- 13 $4.2 \times 10^{-3} =$ _____

PEAK CHALLENGE

- 14 Order the following numbers from least to greatest, using numbers 1 (least) – 5 (greatest).

5.06×10^4	8.7×10^4	3.5×10^2	5.3×10^{-3}	3.4×10^1
_____	_____	_____	_____	_____

Scientific Notation Practice

Scientific notation is a way to write really big or really small numbers more easily.

GENTLE START

Fill in the blank to make each statement true.

- 1 Scientific notation consists of 2 factors.
- 2 In scientific notation, the first factor must be greater than or equal to 1 and less than 10.
- 3 The second factor in scientific notation is a power of 10.
- 4 A positive exponent in scientific notation means the number is more than one.
- 5 A negative exponent in scientific notation means the number is less than one.

STEADY CLIMB

Write each number in Scientific Notation.

- 6 $6,340,000 = 6.34 \times 10^6$
- 7 $85,000,000 = 8.5 \times 10^7$
- 8 $.0043 = 4.3 \times 10^{-3}$
- 9 $12,000,000 = 1.2 \times 10^7$

Write each number in Standard Form.

- 10 $3.4 \times 10^5 = 340,000$
- 11 $1.2 \times 10^3 = 1,200$
- 12 $6.78 \times 10^{-4} = .000678$
- 13 $4.2 \times 10^{-3} = .0042$

PEAK CHALLENGE

- 14 Order the following numbers from least to greatest, using numbers 1 (least) – 5 (greatest).

5.06×10^4	8.7×10^4	3.5×10^2	5.3×10^{-3}	3.4×10^1
<u>4</u>	<u>5</u>	<u>3</u>	<u>1</u>	<u>2</u>