

Scientific Notation:

- Always has a _____ $\times 10^{\text{?}}$
- The number in front is ALWAYS between 1 and 10
included up to
- BIG Numbers have a POSITIVE EXPONENT
- SMALL Numbers have a NEGATIVE EXPONENT

Standard Form:

the normal way to write #'s

Are the numbers written in scientific notation?

Ex. 1: 56.08×10^2 No

Ex. 2: 3×10^{-1} Yes

Ex. 3: 0.456×10^{-4} No

Ex. 4: 4.70×10^5 Yes

Write each number in standard form.

Ex. 5: 5.34×10^4

53,400

5.34

① Is this a
BIG or SMALL # ?

Ex. 6: 3.27×10^{-3}

3.27

0.00327

Ex. 7: 7.42×10^5

742,000

Ex. 8: 6.1×10^{-2}

0.061

Write each number in scientific notation.

Ex. 9: $3,725,000$

3.725×10^6

Ex. 12: 0.00876

8.76×10^{-3}

Ex. 10: 0.000316

3.16×10^{-4}

Ex. 13: 0.114

1.14×10^{-1}

Ex. 11: $14,140,000$

1.414×10^7