Ordering + Comparing Sci. Notation

★ When the exponents are different, order the exponents

$$6.42 \times 10^5, \quad 4.01 \times 10^8, \quad 9.1 \times 10^3$$

Least to Greatest

$$9.1 \times 10^3, \quad 6.42 \times 10^5, \quad 4.01 \times 10^8$$

★ When the exponents are the same, compare using the lead numbers

$$6.1 \times 10^2, \quad 8.24 \times 10^2, \quad 3.941 \times 10^2$$

Greatest to least

$$3.941 \times 10^2, \quad 6.1 \times 10^2, \quad 8.24 \times 10^2$$

★ Are they equal? Make sure they are in the same form.

① 2.47×10^4 = 24 700

② 1.09×10^{-2} 109

③ 647,000 6.47×10^5

④ 0.00057 5.7×10^{-3}

⑤ 0.00014 1.4×10^{-4}