

Estimating Scientific Notation

ex: $(6,978)(4,180)$
 $(7,000)(4,000)$
 $(7 \times 10^3)(4 \times 10^3)$

Smaller $7.4 \times 10^3 \cdot 10^3$ Bigger
 28×10^6
 2.8×10^7

ex:

$$(56.92)(0.00528)$$

$$(60)(0.00500)$$

$$(6 \times 10^1)(5 \times 10^{-3})$$

$$6 \cdot 5 \times 10^1 \cdot 10^{-3}$$

Smaller

$$30$$

x

$$10^{-1} \cdot 10^{-2}$$

Bigger

$$3 \times 10^{-1}$$

$$\alpha: \frac{0.00555}{10,004} = \frac{0.00600}{10,000}$$

$$\frac{6 \times 10^{-3}}{1 \times 10^4}$$

$$6 \div 1 \times \frac{10^{-3}}{10^4}$$

$$\boxed{6 \times 10^{-7}}$$

$$\begin{array}{r} -3-4 \\ -3+(-4) \\ -7 \end{array}$$

ex: $\frac{907.29}{0.29} = \frac{900}{0.3}$

$$\frac{9 \times 10^2}{3 \times 10^{-1}} = 3 \times 10^3$$

$$\begin{array}{r} 2 - (-1) \\ 2 + 1 = 3 \end{array}$$