

Performing Calculations Using Exponents and Scientific Notation

The process of writing a number using scientific notation involves:

1. Moving the decimal point so that exactly one non-zero digit is left of the decimal point.

Example: 576.83 is written as 5.7683

Example: 0.00245 is written as 2.45

2. Counting the number of places the decimal was moved and using the number to determine an exponent for 10.

- a. If the original number were more than 1, the exponent is positive.

Example: $576.83 = 5.7683 \cdot 10^2$

- b. If the original number were less than 1, the exponent is negative.

Example: $0.00245 = 2.45 \cdot 10^{-3}$

Example:

$$65,000 \cdot 500 = \underline{\hspace{2cm}}$$

A process for answering correctly could be:

Begin by writing each number in scientific notation.

Group the numbers and the powers of ten.

Multiply each.

$$\begin{aligned} 65,000 \cdot 500 \\ (6.5 \cdot 10^4) \cdot (5.0 \cdot 10^2) \\ (6.5 \cdot 5.0) \cdot (10^4 \cdot 10^2) \\ 32.5 \cdot 10^6 \end{aligned}$$

Example:

$$\frac{1,050}{0.35} = \underline{\hspace{2cm}}$$

A process for answering correctly could be:

Begin by writing each number in scientific notation.

Group the numbers and the powers of ten.

Divide and simplify.

$$\begin{aligned} \frac{1,050}{0.35} \\ \frac{1.050 \cdot 10^3}{3.5 \cdot 10^{-1}} \\ \frac{1.050}{3.5} \cdot \frac{10^3}{10^{-1}} \\ 0.3 \cdot 10^4 \\ 3 \cdot 10^3 \end{aligned}$$

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