

Science Skills

Rearranging Algebraic Equations

When you first learn about an equation, it is usually shown in the following way. A symbol you have not seen before is on the left of the equation. Symbols you have studied are on the right side of the equation. The value of the quantity that the unfamiliar symbol represents can be found by performing mathematical operations on the familiar quantities. The equation for density is shown below as an example.

$$\begin{array}{ccc} & & \text{Mass} \\ & \nearrow & \\ \text{Density} & \rightarrow D = \frac{m}{V} & \\ & \nwarrow & \\ & & \text{Volume} \end{array}$$

If you wish to calculate density, just put the known values for mass and volume into the equation.

What do you do, however, if you know the density of a substance as well as its volume, and you need to find the mass of the substance? You start with the same equation but rearrange it. That way the values that you know—density and volume—are both on the right side of the equation, and the unknown variable—mass—is by itself on the left side, as shown below.

PROBLEM

Rearrange the equation for density to solve for mass.

SOLUTION

Step 1: Write the equation as it is usually given.

$$D = \frac{m}{V}$$

Step 2: Because mass is the unknown quantity, flip the equation to put mass on the left.

$$\frac{m}{V} = D$$

Step 3: The equation will still be true if you multiply both sides of the equation by the same amount. Multiply both sides by volume (V). This will cancel out volume on the left side, leaving mass alone on the left.

$$\frac{m}{V} \times V = D \times V = DV$$

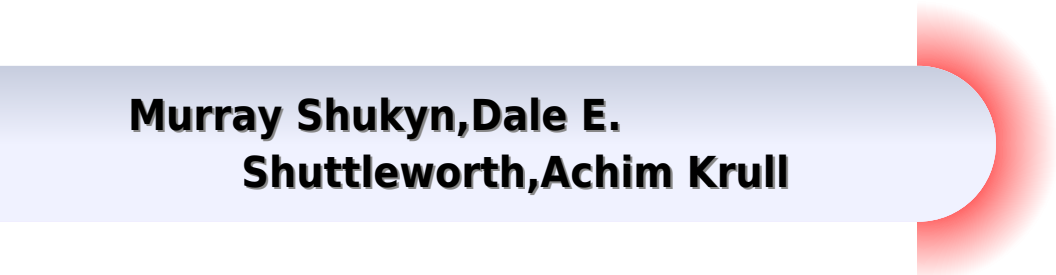
Step 4: The equation has now been rearranged as needed.

$$m = DV$$

What if you know the density and the mass of a substance and you need to find its volume? The density equation can also be rearranged to solve for volume, as shown in the next sample problem.

Science Skills Continued Practice Answers

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