## Relative Atomic Mass

1. A sample of element $X$ consists of $93.2 \%$ of ${ }^{39} \mathrm{X}$ and $6.8 \%$ of ${ }^{41} \mathrm{X}$. What is the relative atomic mass of $X$ ?
2. The atomic mass of element $X$ is 114.8. $X$ has two isotopes, ${ }^{113} X$ and aX, and the relative abundance of ${ }^{113} \mathrm{X}$ is $10.0 \%$. What is the value of $a$ ?

## Suggested Answer

$$
\begin{aligned}
& \text { 1. R.A.M. }=39 \times 93.2 \%+41 \times 6.8 \% \\
& =39.1 \\
& \text { 2. } 114.8=113 \times 10.0 \%+a \times 90.0 \% \\
& a=115
\end{aligned}
$$

