Focus on Problem-Solving:
Multistep Problems

Abby has 4 dozen plants. She needs to divide them into cartons that hold 6 plants each. How many of these cartons can she fill?

What do you know?
• There are 4 dozen plants.
• Each carton holds 6 plants.

What steps do you need to take to solve the problem?

Step 1
Find the total number of plants.

\[
\begin{align*}
12 & \quad \text{number of plants in dozen} \\
\times 4 & \\
48 & \quad \text{total number of plants}
\end{align*}
\]

Step 2
Find the number of cartons needed.

\[
\begin{align*}
48 & \div 6 = 8 \\
\downarrow & \downarrow \downarrow \\
\text{total number} & \text{number plants in carton} \\
\text{number of cartons} & \\
\text{Abby needs 8 cartons for the plants.}
\end{align*}
\]

Solve each problem.

Show your work.

1. At the garden shop, small plants cost $1.25 and large plants cost $2.25. How much will 3 small plants and 1 large plant cost?

2. On Monday, Abby sold 10 cartons with 8 plants in each carton. On Tuesday, she sold 42 plants. How many more plants did she sell on Monday?

3. The garden warehouse delivered 2,000 pounds of topsoil in 50-pound bags. How many bags did they deliver?