

Partial products

Multiply each place value, write the partial products, then add them.

1 Study the model.

$$\begin{array}{r}
 47 \\
 \times 25 \\
 \hline
 35 \quad 5 \times 7 \\
 200 \quad 5 \times 40 \\
 140 \quad 20 \times 7 \\
 + 800 \quad 20 \times 40 \\
 \hline
 1175
 \end{array}$$

Worked example: 47×25

- ① Multiply each part of 47 by the ones of 25: $5 \times 7 = 35$, $5 \times 40 = 200$.
- ② Multiply each part of 47 by the tens of 25: $20 \times 7 = 140$, $20 \times 40 = 800$.
- ③ Add the partial products: $35 + 200 + 140 + 800 = 1175$.

One-digit number? Do step 1, then add.

2 Write each partial product. Then add them.

1. $\begin{array}{r} 34 \\ \times 6 \\ \hline \end{array}$	2. $\begin{array}{r} 57 \\ \times 8 \\ \hline \end{array}$	3. $\begin{array}{r} 76 \\ \times 4 \\ \hline \end{array}$	4. $\begin{array}{r} 89 \\ \times 3 \\ \hline \end{array}$	5. $\begin{array}{r} 65 \\ \times 7 \\ \hline \end{array}$
6. $\begin{array}{r} 263 \\ \times 3 \\ \hline \end{array}$	7. $\begin{array}{r} 315 \\ \times 6 \\ \hline \end{array}$	8. $\begin{array}{r} 36 \\ \times 25 \\ \hline \end{array}$	9. $\begin{array}{r} 42 \\ \times 37 \\ \hline \end{array}$	

3 Solve the fundraiser problems.

10. Students pack 7 crates of apples to sell at the fundraiser. Each crate holds 48 apples. How many apples do they pack?

Answer apples

11. The Grade 4 class sells 26 cases of juice. Each case holds 24 juice boxes. How many juice boxes is that?

Answer boxes