

I Multiply 2-digit by 2-digit

Multiply by the ones digit, then by the tens digit. Add the two rows.

① Study the model.

$$\begin{array}{r} 47 \\ \times 36 \\ \hline 282 \\ + 1410 \\ \hline 1692 \end{array}$$

47×6
 47×30

Worked example: 47×36

- ① Multiply by the ones: $47 \times 6 = 282$.
 - ② Multiply by the tens: $47 \times 30 = 1410$. Write a 0 in the ones place first, then $47 \times 3 = 141$.
 - ③ Add the two rows: $282 + 1410 = 1692$.
- Estimate: $50 \times 40 = 2000$, close to 1692.

② Multiply by the ones, then by the tens. Then add.

1. $\begin{array}{r} 23 \\ \times 14 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	2. $\begin{array}{r} 31 \\ \times 22 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	3. $\begin{array}{r} 45 \\ \times 13 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	4. $\begin{array}{r} 52 \\ \times 24 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	5. $\begin{array}{r} 36 \\ \times 27 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$
6. $\begin{array}{r} 64 \\ \times 35 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	7. $\begin{array}{r} 48 \\ \times 56 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	8. $\begin{array}{r} 73 \\ \times 42 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	9. $\begin{array}{r} 85 \\ \times 39 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$	10. $\begin{array}{r} 97 \\ \times 68 \\ \hline \square\square\square \\ + \square\square\square \\ \hline \square\square\square \end{array}$

③ Solve the concert problems.

11. Volunteers set up 24 rows of chairs in the gym for the spring concert. Each row has 36 chairs. How many chairs is that?

Answer chairs

12. Concert tickets cost 12 dollars each. The school sells 85 tickets. How much money do the tickets bring in?

Answer dollars