

# Use the distributive property to multiply 2 digit numbers

Name \_\_\_\_\_

## Example

$$\begin{aligned}
 6 \times 12 &= ( \underline{6} \times \underline{10} ) + ( \underline{6} \times \underline{2} ) \\
 &= \underline{60} + \underline{12} \\
 &= \underline{72}
 \end{aligned}$$

Decompose 12 into 10 + 2.

Find each product mentally.

Add the products.

$$\begin{aligned}
 6 \times 35 &= ( \underline{\quad} \times \underline{\quad} ) + ( \underline{\quad} \times \underline{\quad} ) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 4 \times 14 &= ( \underline{\quad} \times \underline{\quad} ) + ( \underline{\quad} \times \underline{\quad} ) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 5 \times 52 &= ( \underline{\quad} \times \underline{\quad} ) + ( \underline{\quad} \times \underline{\quad} ) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 4 \times 45 &= ( \underline{\quad} \times \underline{\quad} ) + ( \underline{\quad} \times \underline{\quad} ) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

The World of Maps store displays its maps on 3 shelves. There are 25 world maps on each shelf. How many world maps does the store have to sell?

Write an equation to solve.

$$m = \underline{3} \times \underline{25}$$

$$\begin{aligned}
 &= ( \underline{\quad} \times \underline{\quad} ) + ( \underline{\quad} \times \underline{\quad} ) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$