

This method of multiplication encourages understanding of the process of multiplying a 2-digit number by a 1-digit number. The questions on this page would not normally be completed using written methods: mental methods should suffice. It would be expected that children could do these 'in their heads' from a knowledge of doubling. Also, the Primary Framework for Mathematics does not recommend using these types of written method until Year 3 onwards (7/8 years old).

$$\begin{array}{r} 76 \\ \times 2 \\ \hline \end{array}$$

The method is to multiply the units first, then multiply the tens, finally adding the two together. It is a 'half-way house' towards the standard written method, explaining what happens when the tens boundary is crossed during multiplying the units (ie when the units come to more than 10).

The stages are as follows:

Step 1: **multiply the units**

$$6 \times 2 = 12$$

Put the 12 in the row below the question.

$$\begin{array}{r} \text{t} \quad \text{u} \\ 7 \quad 6 \\ \times 2 \\ \hline 12 \end{array}$$

Step 2: **multiply the tens**

$$7 \text{ (tens)} \times 2 \text{ is } 14 \text{ (tens)} = 140.$$

Put the 140 in the row below, making sure the units line up.

$$\begin{array}{r} \text{t} \quad \text{u} \\ 7 \quad 6 \\ \times 2 \\ \hline 12 \\ 140 \end{array}$$

Step 3: **add the two answers**

Add the units: $2 + 0 = 2$ units
 Then add the tens: $1 + 4 = 5$ tens
 Then add the hundreds: $0 + 1 = 1$ hundred

$$\begin{array}{r} \text{t} \quad \text{u} \\ 7 \quad 6 \\ \times 2 \\ \hline 12 \\ 140 \\ \hline 152 \end{array}$$

1.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 26 \\ \times 2 \\ \hline \end{array}$$

2.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 34 \\ \times 2 \\ \hline \end{array}$$

3.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 56 \\ \times 2 \\ \hline \end{array}$$

4.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 37 \\ \times 2 \\ \hline \end{array}$$

5.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 65 \\ \times 2 \\ \hline \end{array}$$

6.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 74 \\ \times 2 \\ \hline \end{array}$$

7.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 68 \\ \times 2 \\ \hline \end{array}$$

8.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 47 \\ \times 2 \\ \hline \end{array}$$

9.
$$\begin{array}{r} \text{t} \quad \text{u} \\ 84 \\ \times 2 \\ \hline \end{array}$$

1. **52**

2. **68**

3. **112**

4. **74**

5. **130**

6. **148**

7. **136**

8. **94**

9. **168**