

Multiplying 3-Digit by 1-Digit Numbers

Here is how to multiply larger numbers.

	Example A	Example B
Step 1 Multiply the ones. Regroup if necessary.	$\begin{array}{r} 1 \\ 154 \\ \times 4 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ 214 \\ \times 7 \\ \hline 8 \end{array}$
Step 2 Multiply the tens. Add any extra tens. Regroup if necessary.	$\begin{array}{r} 21 \\ 154 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ 214 \\ \times 7 \\ \hline 98 \end{array}$
Step 3 Multiply the hundreds. Add any extra hundreds.	$\begin{array}{r} 21 \\ 154 \\ \times 4 \\ \hline 616 \end{array}$	$\begin{array}{r} 2 \\ 214 \\ \times 7 \\ \hline 1,498 \end{array}$

Find each product. Estimate to check reasonableness.

1.
$$\begin{array}{r} 185 \\ \times 4 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 517 \\ \times 4 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 741 \\ \times 3 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 413 \\ \times 6 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 625 \\ \times 6 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 381 \\ \times 5 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 711 \\ \times 8 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 802 \\ \times 5 \\ \hline \end{array}$$

9. **Number Sense** How could you use the product of 108 and 4 to find the product of 324 and 4?
- _____

10. A factory can make 241 footballs in 1 week. How many can it make in 9 weeks?
- _____