

Multiplying 3- and 4-Digit by 1-Digit Numbers

The steps below show how to multiply greater numbers.

	Example A	Example B
Step 1 Multiply the ones. Regroup if necessary.	$\begin{array}{r} 1 \\ 154 \\ \times 4 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ 1,214 \\ \times 7 \\ \hline 8 \end{array}$
Step 2 Multiply the tens. Add any extra tens. Regroup if necessary.	$\begin{array}{r} 21 \\ 154 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ 1,214 \\ \times 7 \\ \hline 98 \end{array}$
Step 3 Multiply the hundreds. Add any extra hundreds.	$\begin{array}{r} 21 \\ 154 \\ \times 4 \\ \hline 616 \end{array}$	$\begin{array}{r} 12 \\ 1,214 \\ \times 7 \\ \hline 498 \end{array}$
Step 4 Multiply the thousands. Add any extra thousands.		$\begin{array}{r} 12 \\ 1,214 \\ \times 7 \\ \hline 8,498 \end{array}$

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.
$$\begin{array}{r} 2,741 \\ \times 3 \\ \hline \end{array}$$

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

5.
$$\begin{array}{r} 2,625 \\ \times 6 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 812 \\ \times 5 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 3,711 \\ \times 8 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 1,381 \\ \times 5 \\ \hline \end{array}$$

9. Molly and her sister each have 118 shells. How many shells do they have all together?
- _____

10. A factory can make 2,418 footballs in 1 week. How many can it make in 9 weeks?
- _____