

Multiplication of Three-digit Numbers

To multiply by three-digit numbers, multiply by the ones first. Then multiply by the tens and hundreds. Then add these three partial products.

Find: 342×103

Multiply by 3 ones.
Regroup.

	Th	H	T	O
		1		
		3	4	2
×	1	0	3	
	1	0	2	6

Write a zero
place holder.
Multiply by 0 tens.

	Th	H	T	O
		3	4	2
×	1	0	3	
	1	0	2	6
	0	0	0	0

Write two zero
place holders.
Multiply by 1 hundred.

	TTh	Th	H	T	O
			3	4	2
×		1	0	3	
	1	0	2	6	
	0	0	0	0	0
	3	4	2	0	0

Add the partial
products.

	TTh	Th	H	T	O
			3	4	2
×		1	0	3	
		1	0	2	6
		0	0	0	0
+	3	4	2	0	0
	3	5	2	2	6

Multiply.

1.
$$\begin{array}{r} 361 \\ \times 313 \\ \hline 1083 \\ 3610 \\ +108300 \\ \hline 112993 \end{array}$$

b
$$\begin{array}{r} 358 \\ \times 637 \\ \hline \end{array}$$

c
$$\begin{array}{r} 507 \\ \times 383 \\ \hline \end{array}$$

d
$$\begin{array}{r} 870 \\ \times 647 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 950 \\ \times 603 \\ \hline \end{array}$$

$$\begin{array}{r} 621 \\ \times 583 \\ \hline \end{array}$$

$$\begin{array}{r} 932 \\ \times 785 \\ \hline \end{array}$$

$$\begin{array}{r} 400 \\ \times 803 \\ \hline \end{array}$$

Line up the digits. Then find the products.

3.
$$783 \times 342 = \underline{\hspace{2cm}}$$

$$850 \times 330 = \underline{\hspace{2cm}}$$

$$742 \times 582 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 783 \\ \times 342 \\ \hline \end{array}$$