Multiplying by 1-Digit Numbers

Follow the steps below to multiply by a 1-digit number.

Find the product of 3 × 2,576.

① Multiply the ones: 3 × 6 ones = 18 ones.
Regroup as 1 ten and 8 ones.

② Multiply the tens: 3 × 7 tens = 21 tens.
Add 1 regrouped ten; 22 tens.
Regroup as 2 hundreds and 2 tens.

③ Multiply the hundreds: 3 × 5 hundreds = 15 hundreds.
Add 2 regrouped hundreds; 17 hundreds.
Regroup as 1 thousand and 7 hundreds.

④ Multiply the thousands: 3 × 2 thousands = 6 thousands.
Add 1 regrouped thousand; 7 thousands.

$$\begin{array}{r} \overset{1\ \ 21}{2{,}576} \\ \times \ \ \ \ 3 \\ \hline 7{,}728 \end{array}$$

Complete the table. The first row has been done for you.

Find the product.	Estimate the product.	Find the exact product.	Is it reasonable?
1. 7 × 66	7 × 70 = 490	$\begin{array}{r} \overset{4}{66} \\ \times\ 7 \\ \hline 462 \end{array}$	_×_ Yes ___ No
2. 8 × 93	_____ × _____ = _____		___ Yes ___ No
3. 6 × 875	_____ × _____ = _____		___ Yes ___ No
4. 3 × 486	_____ × _____ = _____		___ Yes ___ No
5. 4 × 7,821	__ × _____ = _____		___ Yes ___ No
6. 5 × 3,111	__ × _____ = _____		___ Yes ___ No

7. **Number Sense** Margo found that 3 × 741 = 2,223. How
could you use mental math to find the product of 6 × 741?

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