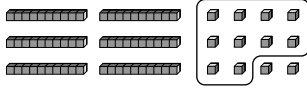
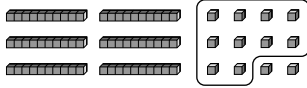


Multiplying 2-Digit by 1-Digit Numbers

Here is how to multiply a 2-digit number by a one-digit number using paper and pencil.

Find 3×24 .	What You Think	What You Write
Step 1 Multiply the ones. Regroup if necessary.	 $3 \times 4 = 12$ ones Regroup 12 ones as 1 ten 2 ones.	$\begin{array}{r} 1 \\ 24 \\ \times 3 \\ \hline 2 \end{array}$
Step 2 Multiply the tens. Add any extra tens.	 3×2 tens = 6 tens 6 tens + 1 ten = 7 tens	$\begin{array}{r} 1 \\ 24 \\ \times 3 \\ \hline 72 \end{array}$

Is your answer reasonable?

Exact: $3 \times 24 = 72$

Round 24 to 20.

Estimate: $3 \times 20 = 60$ Since 72 is close to 60, the answer is reasonable.

Find each product. Decide if your answer is reasonable.

1.
$$\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 17 \\ \times 7 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 24 \\ \times 5 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 48 \\ \times 8 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 62 \\ \times 6 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 36 \\ \times 5 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 88 \\ \times 5 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 52 \\ \times 8 \\ \hline \end{array}$$

9. **Estimation** Use estimation to decide which has the greater product: 813×6 or 907×5 . _____