

# Mental Math: 2 by 1 Multiplication

General tip: Break into smaller multiplication problems, then add the products

Step	Example
	$\begin{array}{r} 48 \\ \times 4 \\ \hline \end{array}$
Step 1: Multiply the 10's	$4 \times 40 = 160$
Step 2: Multiply the 1's	$4 \times 8 = 32$
Step 3: Add the two products	$160 + 32 = 192$

## Practice

Subtract these numbers using mental math.

$\begin{array}{r} 82 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 93 \\ \times 8 \\ \hline \end{array}$
$\begin{array}{r} 49 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 58 \\ \times 6 \\ \hline \end{array}$
$\begin{array}{r} 97 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ \times 7 \\ \hline \end{array}$

# Answers to Practice

$\begin{array}{r} 82 \\ \times 9 \\ \hline 738 \end{array}$	$\begin{array}{r} 43 \\ \times 7 \\ \hline 301 \end{array}$	$\begin{array}{r} 67 \\ \times 5 \\ \hline 335 \end{array}$	$\begin{array}{r} 71 \\ \times 3 \\ \hline 213 \end{array}$	$\begin{array}{r} 93 \\ \times 8 \\ \hline 744 \end{array}$
$\begin{array}{r} 49 \\ \times 9 \\ \hline 441 \end{array}$	$\begin{array}{r} 28 \\ \times 4 \\ \hline 112 \end{array}$	$\begin{array}{r} 53 \\ \times 5 \\ \hline 265 \end{array}$	$\begin{array}{r} 84 \\ \times 5 \\ \hline 420 \end{array}$	$\begin{array}{r} 58 \\ \times 6 \\ \hline 348 \end{array}$
$\begin{array}{r} 97 \\ \times 4 \\ \hline 388 \end{array}$	$\begin{array}{r} 78 \\ \times 2 \\ \hline 156 \end{array}$	$\begin{array}{r} 96 \\ \times 9 \\ \hline 864 \end{array}$	$\begin{array}{r} 75 \\ \times 4 \\ \hline 300 \end{array}$	$\begin{array}{r} 57 \\ \times 7 \\ \hline 399 \end{array}$

## Game: Roll and Flip Battle

### Materials:

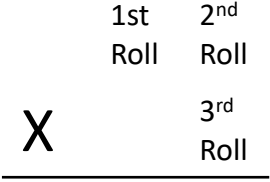
- 10-sided die (Or you can use a deck of cards with the face cards and 10s removed)
- Coin for flipping (Or you can roll dice again: Even = high, Odd = low)
- Dry erase markers/boards/erasers

**Object of the game:** Be the first to score a pre-determined number of points – for example, 10 or 20

### To play:

1<sup>st</sup> player rolls the dice 3 times and records the results as a 2 X 1 multiplication problem – like so

So, if you roll: 6,7,3 – your problem would be:

$$\begin{array}{r} 67 \\ \times 3 \\ \hline \end{array}$$


Do the math in your head (no fair writing it down). The second player does the same. Flip a coin to determine whether high or low wins the point. Heads = High, Tails = Low. Winner gets 1 point. First player to reach the pre-determined number of points wins.

**Printing:** 2-sided, black and white, landscape, flip on short edge