

1. Branch method of addition (adding two digit numbers)
The problem is written horizontally.

$$54 + 38$$

2. Branch both numbers into tens and ones
WRITE THE TENS ON THE OUTSIDE
WRITE THE ONES ON THE INSIDE

$$\begin{array}{c} 54 + 38 \\ \diagdown \quad \diagup \quad \diagdown \quad \diagup \\ 50 \quad 4 \quad 8 \quad 30 \end{array}$$

3. Continue to branch and make tens when possible.

$$\begin{array}{c} 54 + 38 \\ \diagdown \quad \diagup \quad \diagdown \quad \diagup \\ 50 \quad 4 \quad 8 \quad 30 \\ \quad \quad \quad \diagdown \quad \diagup \\ \quad \quad \quad 6 \quad 2 \end{array}$$

$$\begin{array}{c} 54 + 38 \\ \diagdown \quad \diagup \quad \diagdown \quad \diagup \\ 50 \quad 4 \quad 8 \quad 30 \\ \quad \quad \quad \diagdown \quad \diagup \\ \quad \quad \quad 6 \quad 2 \end{array}$$

5. Add all the tens.

$$50 + 10 + 30 = 90$$

6. Add all the ones.

$$2$$

$$90 + 2 = 92$$