

Add 2 - Digit Numbers

You can use place-value models to add 2-digit numbers.

Estimate. Then find the sum using place value or mental math.

$$\begin{array}{r} 24 \\ + 39 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Estimate: } 24 \rightarrow 20 \\ \quad + 39 \rightarrow + 40 \\ \hline 60 \end{array}$$

STEP 1: Add the ones

$$\begin{array}{r} 24 \\ + 39 \\ \hline 13 \end{array}$$

STEP 2: Regroup as necessary.

13 ones is the same as 1 ten and 3 ones.

STEP 3: Add the tens.

$$\begin{array}{r} 24 \\ + 39 \\ \hline 63 \end{array}$$

STEP 4: So, $24 + 39 = 63$.

Since 63 is close to the estimated sum of 60, your answer is reasonable.

Examples:

A- Estimate. Then find each sum using place value or mental math.

1)

$$\begin{array}{r} 17 \\ +54 \\ \hline \end{array} \quad \begin{array}{r} 20 \\ + 50 \\ \hline 70 \end{array}$$

2)

$$\begin{array}{r} 45 \\ +68 \\ \hline \end{array} \quad \begin{array}{r} 50 \\ + 70 \\ \hline 120 \end{array}$$

3)

$$\begin{array}{r} 98 \\ +36 \\ \hline \end{array} \quad \begin{array}{r} 100 \\ + 40 \\ \hline 140 \end{array}$$

4)

$$\begin{array}{r} 56 \\ +41 \\ \hline \end{array} \quad \begin{array}{r} 60 \\ + 40 \\ \hline 100 \end{array}$$

B- Problem Solving

Andy's family drove 214 miles on Friday and 329 miles on Saturday. How many miles did they drive in all?

$$214 + 329 = 543 \text{ miles}$$

They end up driving 543 miles.

My Real Life

Rami picked 17 apples. Dana picked 7 more apples than Rami? How many apples did Rami and Dana picked in all?



Step 1: Dana picked $17 + 7 = 24$

Step 2: They both picked: $17 + 24 = 41$ apples.