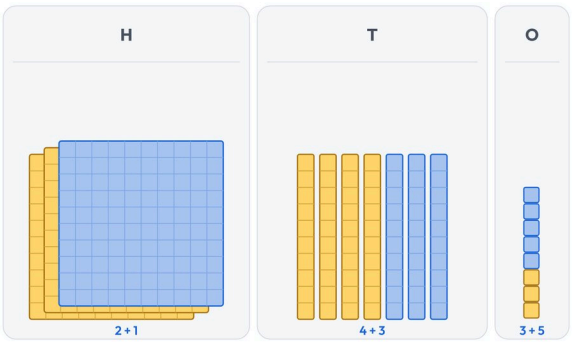
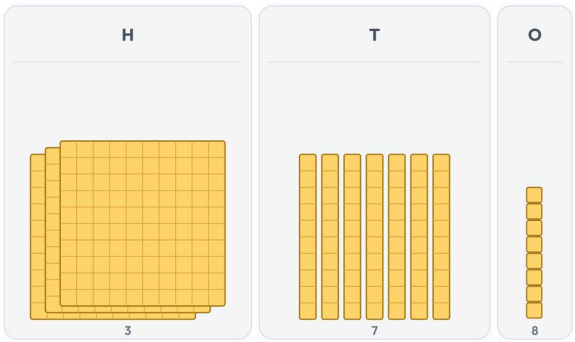
Names (pair) _____ Date _____

Written Addition

Example



243 (yellow) and 135 (blue) in the app



the sum: 3 flats, 7 rods, 8 units

$$\begin{array}{r} 2\ 4\ 3 \\ +\ 1\ 3\ 5 \\ \hline 3\ 7\ 8 \end{array}$$

We **line up** the numbers: ones under ones, tens under tens, hundreds under hundreds.

We add column by column, **starting with the ones**: $3 + 5 = 8$, $4 + 3 = 7$, $2 + 1 = 3$.

1 ON YOUR OWN Estimate first, then calculate.

$$\begin{array}{r} 3\ 1\ 4 \\ +\ 2\ 5\ 2 \\ \hline \square\square\square \end{array}$$

estimate: ☐

$$\begin{array}{r} 4\ 2\ 0\ 3 \\ +\ 1\ 6\ 4\ 5 \\ \hline \square\square\square\square \end{array}$$

estimate: ☐

$$\begin{array}{r} 5\ 2\ 1 \\ +\ 3\ 0\ 7 \\ \hline \square\square\square \end{array}$$

estimate: ☐

$$\begin{array}{r} 6\ 0\ 4\ 0 \\ +\ 2\ 7\ 3\ 5 \\ \hline \square\square\square\square \end{array}$$

estimate: ☐

2 IN PAIRS Write the calculation in a column and work it out.

Ana collected 432 bottles and Mark collected 246. How many bottles did they collect altogether?

answer: ☐

The school library has 1,324 books. It buys 2,415 more. How many books does it have now?

answer: ☐

Names (pair) _____ Date _____

Remember

In written addition we **line the numbers up by place value** and add column by column, from the ones to the greater places. Before calculating we estimate, and afterwards we check that the answer is close to the estimate.

3 IN PAIRS **Find the mistake.** Luke added $352 + 46$ like this and got 812. What went wrong? Write it correctly.

$$\begin{array}{r} 3\ 5\ 2 \\ +\ 4\ 6 \\ \hline 8\ 1\ 2 \end{array}$$

4 ON YOUR OWN Write the missing digits.

$$\begin{array}{r} 4\ \square\ 2 \\ +\ 3\ 5\ \square \\ \hline \square\ 7\ 8 \end{array}$$

5 IN A GROUP CHALLENGE Write two three-digit numbers that add up to 999 where no column adds up to more than 9. How many such pairs can you find? Could you get a sum of $1{,}000$ this way? Why?

The Place Value Blocks app · otooly.com/place-value-blocks

Adding and subtracting mode: enter $243 + 135$ and go step by step with **Next**. What happens in each column?

★ ON YOUR OWN **Exit card.** $5{,}231 + 2{,}504 =$ ☐