

Tens & Ones Strategies

Elaboration 2 · Mental strategies for adding two-digit numbers

ELABORATION FOCUS

Using doubles, near doubles, part-part-whole knowledge to 10, bridging tens and partitioning to solve two-digit problems: $56 + 37$ is 8 tens and 13, which is 93.

LEARNING INTENTION I can split two-digit numbers into tens and ones to add them in my head.

Partition

Tens

Ones

Bridge tens

Recombine

1

Split Both Numbers

Break each number into its tens and its ones.

2

Add Tens, Add Ones

Add the tens together, then add the ones together.

3

Put It Back Together

Join the tens and the ones, trading extra ones for a ten.

MODEL · PARTITION $56 + 37$ INTO TENS AND ONES

Split both numbers, add the tens, add the ones, then put them back together.

Tens

50

30

= 80

Ones

6

7

= 13

$$50 + 30 = 80$$

$$6 + 7 = 13$$

$$80 + 13 = 93$$

8 tens and 13 is 9 tens and 3, so $56 + 37 = 93$.

TEACHER MODELLING ROUTINE

I do → We do → You do

WATCH FOR

Losing the extra ten when the ones make more than 10, or adding tens onto ones.

REMEMBER

13 ones is one ten and 3, so 8 tens and 13 becomes 9 tens and 3.

MATERIALS

Base-10 blocks, ten-frames, hundreds charts, open number lines, whiteboards.