

Jottings & the Zero Rule

Elaboration 4 · Keeping track of numbers with informal written jottings

ELABORATION FOCUS

Using jottings to keep track when adding and subtracting two-digit numbers, and knowing that adding zero leaves a number unchanged.

LEARNING INTENTION I can jot my thinking, and adding zero changes nothing.

Jottings

Tens first

Then ones

Adding zero

Recombine

1

Jot the Tens and Ones

Write each number as tens and ones so nothing gets lost.

2

Add Tens, Then Ones

Add the tens, jot the answer, then add the ones and jot that too.

3

Use the Zero Rule

Adding zero keeps a number the same, so 4 ones stay 4 ones.

MODEL · JOT YOUR THINKING FOR $34 + 20$

Jot the tens, jot the ones, then join them back together.

Tens

30

20

= 50

Ones

4

0

= 4

$$30 + 20 = 50$$

$$4 + 0 = 4$$

$$50 + 4 = 54$$

3 tens add 2 tens is 50, and 4 ones add 0 ones is 4, so $34 + 20 = 54$.

TEACHER MODELLING ROUTINE

I do → We do → You do

WATCH FOR

Thinking zero makes a number bigger, or losing the tens while adding the ones.

REMEMBER

Adding zero changes nothing, so $4 + 0$ is still 4 and $60 + 0$ is still 60.

MATERIALS

Whiteboards, jotting slips, base-10 blocks, ten-frames, hundreds charts.