

Renaming Numbers in Different Ways

Elaboration 2 · Using place value to rename the same number

ELABORATION FOCUS

Renaming numbers in different ways using knowledge of place value; for example, renaming 245 as 24 tens and 5 ones or 2 hundreds and 45 ones.

LEARNING INTENTION We are learning to rename the same number in different ways using place value.

Build it

Standard name

Regroup

Rename

Check it

1

Standard Name

Show 245 as 2 hundreds, 4 tens and 5 ones — the usual name.

2

Rename in Tens

Trade each hundred for 10 tens: 245 becomes 24 tens and 5 ones.

3

Rename in Ones

Trade 4 tens for 40 ones: 245 becomes 2 hundreds and 45 ones.

MODEL WITH BASE-10 MATERIALS

Build 245, then rename it by regrouping the materials.



2 hundreds = 200



4 tens = 40



5 ones = 5

$245 = 24 \text{ tens} + 5 \text{ ones} = 2 \text{ hundreds} + 45 \text{ ones}.$

TEACHER MODELLING ROUTINE

I do → We do → You do

WATCH FOR

Thinking a number has only one name — it can be renamed many ways.

REMEMBER

Say it to students as: "Change the grouping without changing the total."

MATERIALS

Base-10 blocks (flats, rods, cubes), place-value chart, digit cards.