

Partitioning Numbers

AC9M1N02 Break one- and two-digit numbers apart in different ways using real and on-screen tools, including breaking two-digit numbers into tens and ones.

Learning Intention: I can break one- and two-digit numbers apart in different ways, including into tens and ones.

✓ Partition ✓ Tens and ones ✓ Different ways ✓ Physical tools ✓ Virtual tools

1. Break It Apart

Partition = break a number apart.

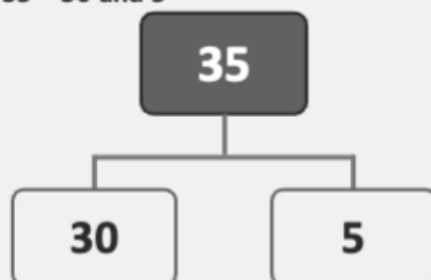
Join the parts to make the whole.

Whole: the number we start with

Parts: the smaller numbers inside it

2. Part-Part-Whole

$35 = 30$ and 5



3. Expanded Form

Whole

35

↓

30

↓

5

↓

$30 + 5$

$= 35$

⚠ Watch For

Parts must rebuild the whole.

$30 + 5 = 35$, not 8 .

Count tens and ones carefully.

Remember

Whole = all the parts together
($30 + 5 = 35$)

$35 = 30 + 5$

Parts = the numbers inside
(30 and 5)

Let's Talk

- How can you break 35 into parts?
- Is there another way to partition it?
- How do the parts make the whole?

Materials & Models

- ✓ MAB / base-10 blocks
 - ✓ Ten-frames
 - ✓ Counters & part-whole mats
- Use real and on-screen tools.

Let's Try Together Partition each number into tens and ones — work through the blanks with your teacher.

$$24 = 20 + 4$$

$$46 = 40 + 6$$

$$63 = 60 + \underline{\quad}$$

$$18 = \underline{\quad} + 8$$

$$50 = \underline{\quad} + \underline{\quad}$$