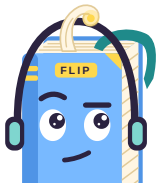
Name _____ Date _____

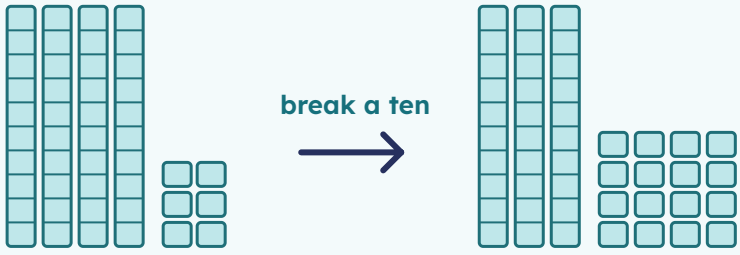
Splitting numbers

One number, lots of ways to split it into parts.

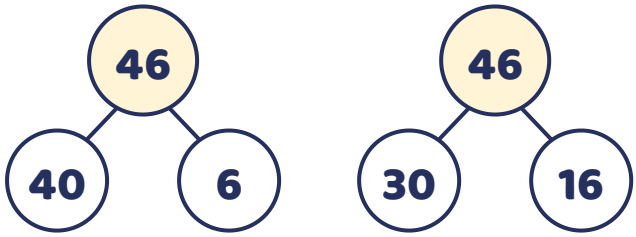
1 Learn



46 is 4 tens and 6 ones. But I can break a ten into 10 ones, and split 46 another way!



40 + 6 30 + 16



The **whole** is at the top. The **parts** are underneath.

Both are right: 40 + 6 = 46 and 30 + 16 = 46.

Flip's tip: swap a ten for 10 ones: the tens part goes down by 10 and the ones part goes up by 10.

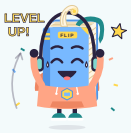
Warm up: put the parts back together.

30 + 5 = ☐ 70 + 2 = ☐ 50 + 8 = ☐

Grown-ups: "partition" is the word schools use for splitting. Build 46 with the bundles from chapter 1's sheet, then open one bundle to show 30 + 16.

Name _____ Date _____

2 Try it together a child and a grown-up, about 10 minutes



Two plates

You need: bundles of 10 (pasta or straws with a band round them, or 10 in a cup), some loose ones, and two plates.

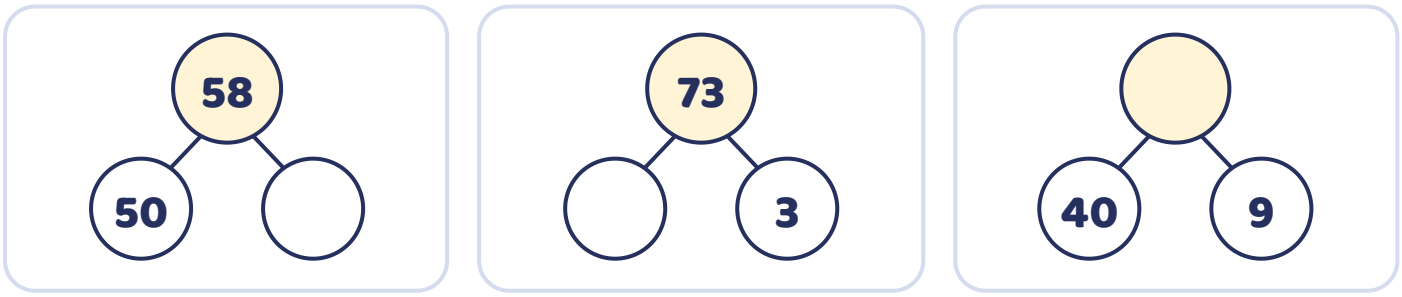
1. Make **35**: 3 bundles and 5 loose ones.
2. Share it all between the two plates. You can open a bundle into 10 loose ones.
3. Count each plate and write the two parts. Check they make 35.
4. Find as many different ways as you can.

Plate 1	Plate 2	Check: plate 1 + plate 2

Grown-ups: the total stays 35 however you share it. 30 + 5, 20 + 15 and 25 + 10 all count. Ask "Did we lose any? Did we get any more?"

3 Practise

A. Fill in the missing number in each part-whole model.



Your turn: draw a part-whole model for **27**. Split it any way you like.

Name _____ Date _____

B. Split each number two ways.

52 = 50 + ___ 52 = 40 + ___	37 = 30 + ___ 37 = 20 + ___	64 = 60 + ___ 64 = 50 + ___

C. Fill in the missing parts.

40 + ___ = 46

___ + 9 = 89

25 = 20 + ___

25 = 10 + ___

D. Ring every way to make **44**.

40 + 4	**30 + 14**
4 + 40	**34 + 1**
20 + 24	**14 + 20**

Challenge

Ava says **63** can only be split as 60 + 3. Show her two more ways to split 63.

Hint: what happens if you break one of the tens?

I can... Tick when you can.

- [ ] split a number into tens and ones
- [ ] split a number in a different way by breaking a ten
- [ ] find a missing part