

Part-Part-Whole Fact Families

Elaboration 2 · Splitting a whole into two parts

ELABORATION FOCUS

Partitioning and rearranging collections with materials and part-part-whole diagrams, so an addition fact to 20 gives its two related subtraction facts.

LEARNING INTENTION I can use one add fact to write two take away facts.

Whole

Part

Other part

Add facts

Take away

1

Build the Whole

Step 1: make 15 with cubes.
Step 2: this whole number goes in the top box.

2

Split into Parts

Step 3: break the 15 into 8 and 7. Step 4: put each part in a bottom box.

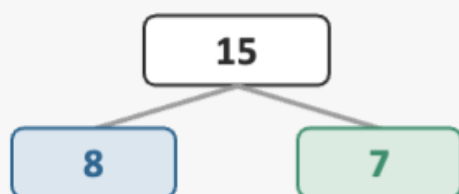
3

Write the Family

Step 5: write two add facts.
Step 6: write two take away facts.

MODEL · THE FACT FAMILY FOR 8, 7 AND 15

Take the whole apart, then put it back together the other way.



Whole 15 · parts 8 and 7

Because $8 + 7 = 15$, we also know $15 - 7 = 8$ and $15 - 8 = 7$.

$$8 + 7 = 15$$

$$7 + 8 = 15$$

$$15 - 7 = 8$$

$$15 - 8 = 7$$

One family · four facts

TEACHER MODELLING ROUTINE

I do → We do → You do

WATCH FOR

Rebuilding the cubes for the take away facts instead of reading them off the diagram.

REMEMBER

Say it to students as: "Take one part away and the other part is left."

MATERIALS

Connecting cubes, counters, part-part-whole mats, blank diagrams, fact family strips.