

Make 2 in different ways

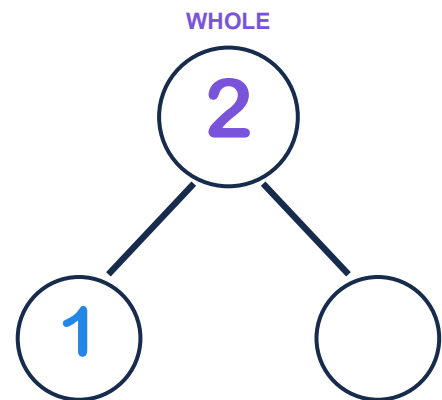
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{2}$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{rcl} 0 + \square & = & 2 \\ 2 + \square & = & 2 \\ 1 + \square & = & 2 \\ 0 + \square & = & 2 \end{array}$$

4 Circle sums that make 2

$$\begin{array}{c} 1 + 0 \\ 0 + 2 \\ 1 + 1 \end{array}$$

5 Swap the parts

$$1 + 1 = 2$$

$$\square + \square = \boxed{2}$$

6 Invent your own split



Use two colours. Count each part.

$$\square + \square = \boxed{2}$$

Make 3 in different ways

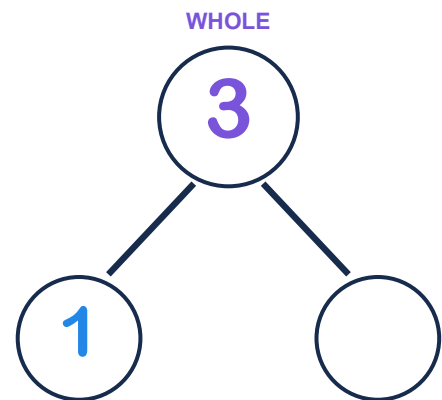
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{3}$$

2 Find the missing part



3 Complete four bonds

0 +	<input type="text"/>	= 3
3 +	<input type="text"/>	= 3
1 +	<input type="text"/>	= 3
2 +	<input type="text"/>	= 3

4 Circle sums that make 3

$$1 + 2$$

$$1 + 1$$

$$0 + 3$$

5 Swap the parts

$$1 + 2 = 3$$

$$\square + \square = \boxed{3}$$

6 Invent your own split



Use two colours. Count each part.

$$\square + \square = \boxed{3}$$

Make 4 in different ways

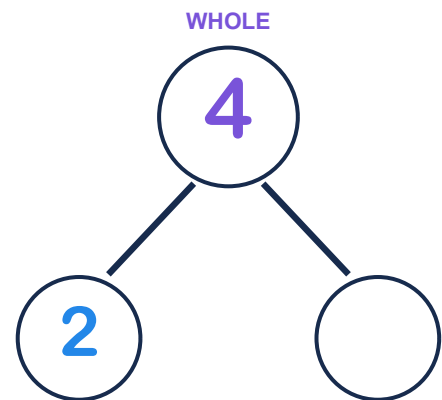
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{4}$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{rcl} 0 + \square & = & 4 \\ 4 + \square & = & 4 \\ 2 + \square & = & 4 \\ 1 + \square & = & 4 \end{array}$$

4 Circle sums that make 4

$$\begin{array}{c} 2 + 1 \\ 0 + 4 \\ 2 + 2 \end{array}$$

5 Swap the parts

$$2 + 2 = 4$$

$$\square + \square = \boxed{4}$$

6 Invent your own split



Use two colours. Count each part.

$$\square + \square = \boxed{4}$$

Make 5 in different ways

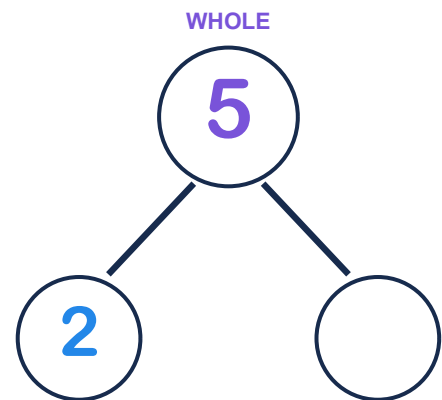
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{5}$$

2 Find the missing part



3 Complete four bonds

0 +	<input type="text"/>	= 5
5 +	<input type="text"/>	= 5
2 +	<input type="text"/>	= 5
1 +	<input type="text"/>	= 5

4 Circle sums that make 5

$$0 + 5$$

$$2 + 2$$

$$2 + 3$$

5 Swap the parts

$$2 + 3 = 5$$

$$\square + \square = \boxed{5}$$

6 Invent your own split



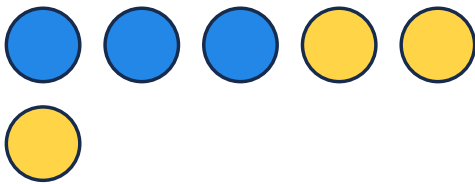
Use two colours. Count each part.

$$\square + \square = \boxed{5}$$

Make 6 in different ways

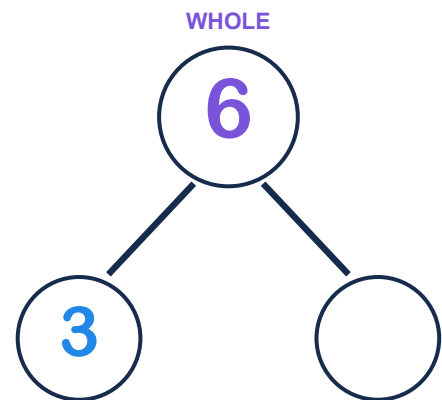
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{6}$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{l} 0 + \square = 6 \\ 6 + \square = 6 \\ 3 + \square = 6 \\ 2 + \square = 6 \end{array}$$

4 Circle sums that make 6

$$\begin{array}{l} 3 + 2 \\ 3 + 3 \\ 0 + 6 \end{array}$$

5 Swap the parts

$$3 + 3 = 6$$

$$\square + \square = \boxed{6}$$

6 Invent your own split



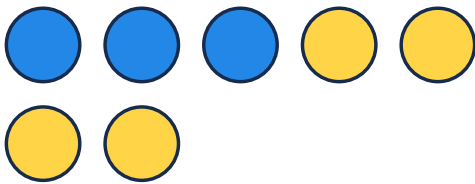
Use two colours. Count each part.

$$\square + \square = \boxed{6}$$

Make 7 in different ways

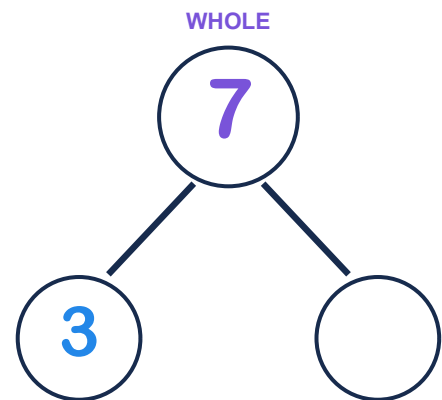
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{7}$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{l} 0 + \square = 7 \\ 7 + \square = 7 \\ 3 + \square = 7 \\ 2 + \square = 7 \end{array}$$

4 Circle sums that make 7

$$\begin{array}{l} 3 + 4 \\ 0 + 7 \\ 3 + 3 \end{array}$$

5 Swap the parts

$$3 + 4 = 7$$

$$\square + \square = \boxed{7}$$

6 Invent your own split



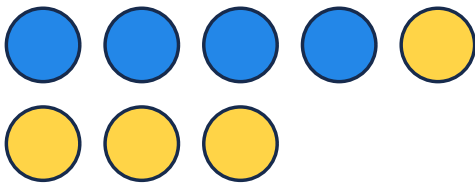
Use two colours. Count each part.

$$\square + \square = \boxed{7}$$

Make 8 in different ways

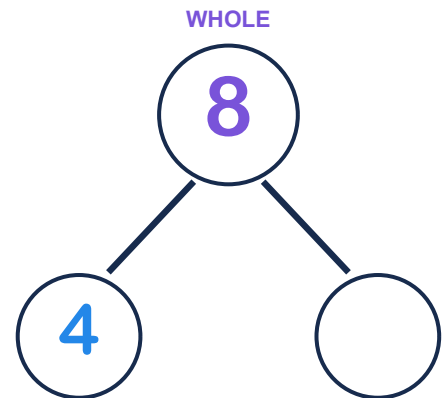
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{8}$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{l} 0 + \square = 8 \\ 8 + \square = 8 \\ 4 + \square = 8 \\ 3 + \square = 8 \end{array}$$

4 Circle sums that make 8

$$\begin{array}{l} 0 + 8 \\ 4 + 3 \\ 4 + 4 \end{array}$$

5 Swap the parts

$$4 + 4 = 8$$

$$\square + \square = \boxed{8}$$

6 Invent your own split



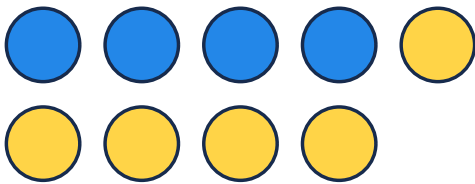
Use two colours. Count each part.

$$\square + \square = \boxed{8}$$

Make 9 in different ways

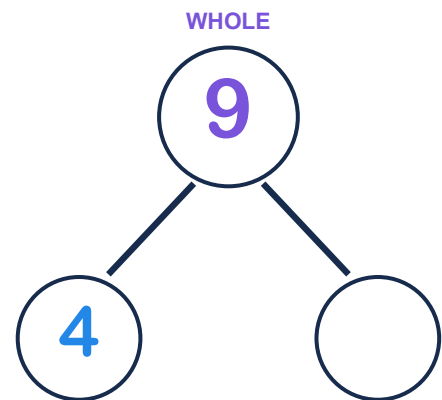
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = \boxed{9}$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{l} 0 + \square = 9 \\ 9 + \square = 9 \\ 4 + \square = 9 \\ 3 + \square = 9 \end{array}$$

4 Circle sums that make 9

$$\begin{array}{l} 0 + 9 \\ 4 + 5 \\ 4 + 4 \end{array}$$

5 Swap the parts

$$4 + 5 = 9$$

$$\square + \square = \boxed{9}$$

6 Invent your own split



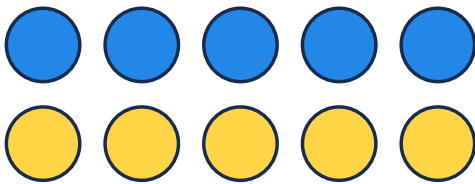
Use two colours. Count each part.

$$\square + \square = \boxed{9}$$

Make 10 in different ways

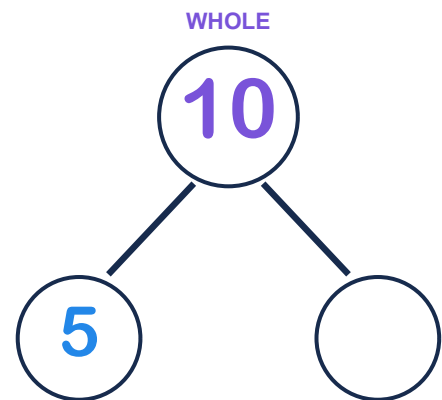
The whole stays the same. The two parts can change.

1 Join the two groups



$$\square + \square = 10$$

2 Find the missing part



3 Complete four bonds

$$\begin{array}{l} 0 + \square = 10 \\ 10 + \square = 10 \\ 5 + \square = 10 \\ 4 + \square = 10 \end{array}$$

4 Circle sums that make 10

$$\begin{array}{l} 5 + 4 \\ 5 + 5 \\ 0 + 10 \end{array}$$

5 Swap the parts

$$5 + 5 = 10$$

$$\square + \square = 10$$

6 Invent your own split



Use two colours. Count each part.

$$\square + \square = 10$$

Missing-part practice

Use counters if helpful. Try without the focus-page title as a clue.

1 Find the part

$$\boxed{0} + \boxed{} = \boxed{2}$$

2 Find the part

$$\boxed{1} + \boxed{} = \boxed{3}$$

3 Find the part

$$\boxed{2} + \boxed{} = \boxed{4}$$

4 Find the part

$$\boxed{0} + \boxed{} = \boxed{5}$$

5 Find the part

$$\boxed{3} + \boxed{} = \boxed{6}$$

6 Find the part

$$\boxed{4} + \boxed{} = \boxed{7}$$

7 Find the part

$$\boxed{5} + \boxed{} = \boxed{8}$$

8 Find the part

$$\boxed{6} + \boxed{} = \boxed{9}$$

9 Find the part

$$\boxed{7} + \boxed{} = \boxed{10}$$

10 Find the part

$$\boxed{0} + \boxed{} = \boxed{10}$$

Count, split and add

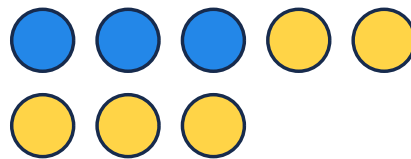
Use counters if helpful. Try without the focus-page title as a clue.

1 Write the whole



$$\boxed{1} + \boxed{4} = \boxed{}$$

2 Write the whole



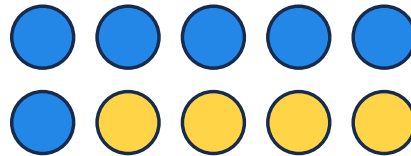
$$\boxed{3} + \boxed{5} = \boxed{}$$

3 Write the whole



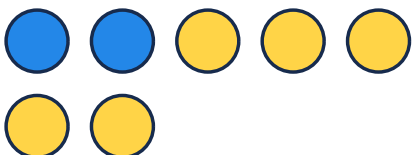
$$\boxed{0} + \boxed{4} = \boxed{}$$

4 Write the whole



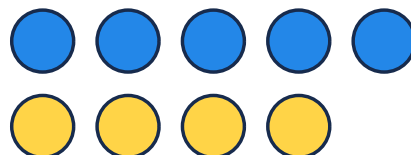
$$\boxed{6} + \boxed{4} = \boxed{}$$

5 Write the whole



$$\boxed{2} + \boxed{5} = \boxed{}$$

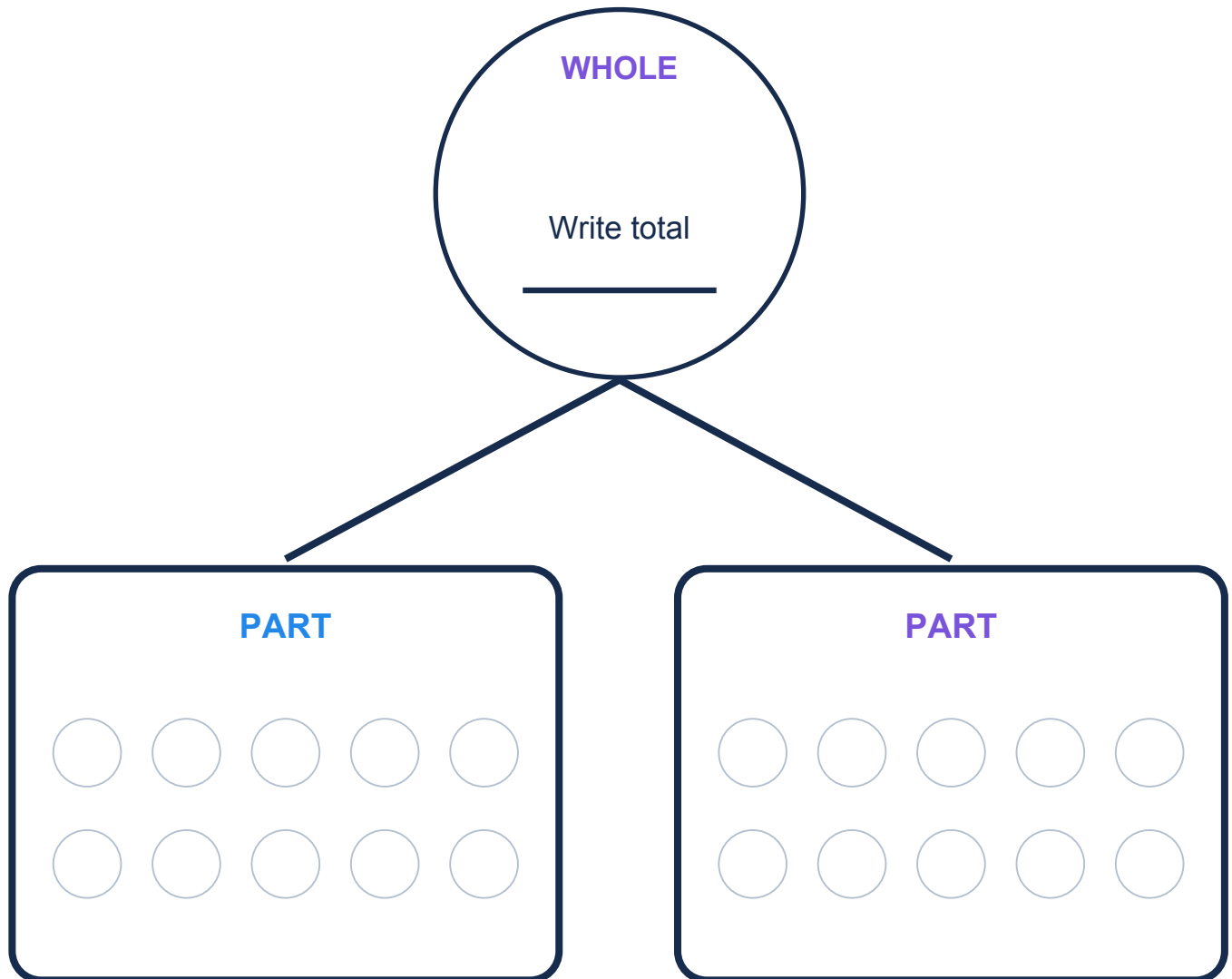
6 Write the whole



$$\boxed{5} + \boxed{4} = \boxed{}$$

Reusable part-whole mat

Pick a total from 2 to 10. Put every counter in one of the two parts.



The diagram shows a large circle at the top labeled "WHOLE" in purple. Inside the circle, it says "Write total" above a horizontal line. Two lines extend from the bottom of the circle to two separate rounded rectangles below. Each rectangle is labeled "PART" in blue. Each "PART" box contains two rows of five small circles, for a total of ten circles per part.

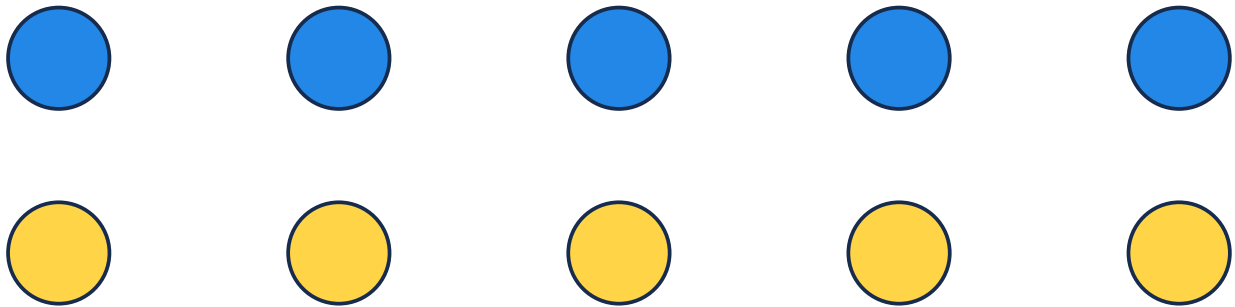
Every counter belongs to one part. Empty parts count as zero.



A template for a number sentence: a square box followed by a plus sign, another square box followed by an equals sign, and a final square box.

Counters and challenge cards

A grown-up cuts the outside shapes. Keep a whole set of ten counters.



Use both colours, or turn some over to change a split.

MAKE 2	MAKE 3	MAKE 4
MAKE 5	MAKE 6	MAKE 7
MAKE 8	MAKE 9	MAKE 10

Counters are 38 pt across; they fit the mat's two 226 × 170 pt parts.

Grown-up practice guide

One short practice session at a time. Model together, then let the child try.

START WITH A SMALL WHOLE

Suggested ages 5–7 when counting within ten is secure. Start with 2–5.

Count all counters first. Split them into two groups without adding any.

SIX WAYS TO PRACTISE

Join groups, complete a part–whole model, fill four missing parts,

choose true sums, swap the parts and invent a different split.

An empty group is zero. Two plus zero is still two.

MODEL, TRY, MIX

Pages 1–9 deliberately show the whole in the title. Try two tasks first.

Pages 10–11 mix totals; use the mat and counters whenever helpful.

Ask: What changed? What stayed the same? Do not make this a race.

REUSABLE PIECES

Print pages 12–13 at actual size. A grown-up cuts the ten counters

and nine challenge cards. The counters fit inside each part on the mat.

No glue, folding or hidden mechanism is needed.

CHECKING

Each task 6 accepts any two non-negative parts adding to the total.

You may use zero. More than one split is correct. See all answers next.

All answers

Rows count from the top. In task 4, number sums 1–3 from top to bottom.

2: 1) $1+1=2$ 2) 1 3) 2, 0, 1, 2

4) sums 2, 3 5) $1+1=2$ 6) any $a+b=2$, including 0.

3: 1) $1+2=3$ 2) 2 3) 3, 0, 2, 1

4) sums 1, 3 5) $2+1=3$ 6) any $a+b=3$, including 0.

4: 1) $2+2=4$ 2) 2 3) 4, 0, 2, 3

4) sums 2, 3 5) $2+2=4$ 6) any $a+b=4$, including 0.

5: 1) $2+3=5$ 2) 3 3) 5, 0, 3, 4

4) sums 1, 3 5) $3+2=5$ 6) any $a+b=5$, including 0.

6: 1) $3+3=6$ 2) 3 3) 6, 0, 3, 4

4) sums 2, 3 5) $3+3=6$ 6) any $a+b=6$, including 0.

7: 1) $3+4=7$ 2) 4 3) 7, 0, 4, 5

4) sums 1, 2 5) $4+3=7$ 6) any $a+b=7$, including 0.

8: 1) $4+4=8$ 2) 4 3) 8, 0, 4, 5

4) sums 1, 3 5) $4+4=8$ 6) any $a+b=8$, including 0.

9: 1) $4+5=9$ 2) 5 3) 9, 0, 5, 6

4) sums 1, 2 5) $5+4=9$ 6) any $a+b=9$, including 0.

10: 1) $5+5=10$ 2) 5 3) 10, 0, 5, 6

4) sums 2, 3 5) $5+5=10$ 6) any $a+b=10$, including 0.

Mixed page 10 / answers 1–10:

2, 2, 2, 5, 3, 3, 3, 3, 3, 10

Mixed page 11 / wholes 1–6: 5, 8, 4, 10, 7, 9.

Reusable mat: any two non-negative parts with the chosen total.