

MATH · GRADES K–3

Number Bonds Posters

To 10, to 20, to 100

What are number bonds?

NUMBER BONDS are pairs of numbers that add up to a target number. Number bonds to 10 are pairs that make 10 — like 3 and 7, or 6 and 4. Knowing these by heart is the foundation of mental arithmetic. Children who know their bonds to 10 can quickly work out bonds to bigger numbers.

Number bonds to 10

First number	+	Second number	=	Total
0	+	10	=	10
1	+	9	=	10
2	+	8	=	10
3	+	7	=	10
4	+	6	=	10
5	+	5	=	10
6	+	4	=	10
7	+	3	=	10
8	+	2	=	10
9	+	1	=	10
10	+	0	=	10



Number bonds to 20

First number	+	Second number	=	Total
0	+	20	=	20
1	+	19	=	20
2	+	18	=	20
3	+	17	=	20
4	+	16	=	20
5	+	15	=	20
6	+	14	=	20
7	+	13	=	20
8	+	12	=	20
9	+	11	=	20
10	+	10	=	20

Number bonds to 100 (in tens)

First number	+	Second number	=	Total
0	+	100	=	100
10	+	90	=	100
20	+	80	=	100
30	+	70	=	100
40	+	60	=	100
50	+	50	=	100
60	+	40	=	100
70	+	30	=	100
80	+	20	=	100
90	+	10	=	100



First number	+	Second number	=	Total
100	+	0	=	100

Building from bonds to 10 to bonds to 100

Once children know bonds to 10, bonds to 100 follow naturally: • If $3 + 7 = 10$, then $30 + 70 = 100$
 • If $4 + 6 = 10$, then $40 + 60 = 100$ BONDS TO 100 (in any number, not just tens) work the same way. To find what makes 100 with 37, find what makes 10 with 7 (= 3, so 63 makes 100 with 37 — but adjust for the tens). With practice, this becomes instant.

Activities to practise

<p>Bond rapid-fire</p> <p>Call out a number. Children call back its bond to 10 (or 20, or 100). 'Five!' — 'Five!' 'Three!' — 'Seven!' Aim for instant recall.</p>	<p>Card pairs</p> <p>Number cards 0-10 face down on the table. Children turn over two. If they make 10, keep the pair. If not, turn back. Like a memory game.</p>
<p>Number bond bingo</p> <p>Children fill a 3x3 grid with numbers 0-10. Call out 'What goes with 4?' If they have 6 on their grid, they cross it. First to cross all 9 wins.</p>	<p>Hands behind back</p> <p>Show 6 fingers on one hand. Behind your back, hold up the other hand. How many fingers are hidden to make 10? (4 — show to confirm.)</p>

