



The grid is a 4x4 grid divided into four 2x2 quadrants by a thick cross. The numbers and circles are distributed as follows:

- Top-Left Quadrant (Rows 1-2, Columns 1-2):**
 - Row 1, Column 1: 7
 - Row 1, Column 2: 8 (circled)
 - Row 2, Column 1: 3
 - Row 2, Column 2: 1
- Top-Right Quadrant (Rows 1-2, Columns 3-4):**
 - Row 1, Column 3: 1
 - Row 1, Column 4: 3 (circled)
 - Row 2, Column 3: 3
 - Row 2, Column 4: 7
- Bottom-Left Quadrant (Rows 3-4, Columns 1-2):**
 - Row 3, Column 1: 2
 - Row 3, Column 2: 8
 - Row 4, Column 1: 6 (circled)
 - Row 4, Column 2: 8
- Bottom-Right Quadrant (Rows 3-4, Columns 3-4):**
 - Row 3, Column 3: 1
 - Row 3, Column 4: 9 (circled)
 - Row 4, Column 3: 5
 - Row 4, Column 4: 1

Arrows indicate connections between numbers and circles:

- 7 (Row 1, Col 1) connects to 8 (Row 1, Col 2).
- 8 (Row 1, Col 2) connects to 3 (Row 2, Col 1).
- 3 (Row 2, Col 1) connects to 1 (Row 2, Col 2).
- 1 (Row 2, Col 2) connects to 3 (Row 1, Col 4).
- 3 (Row 1, Col 4) connects to 7 (Row 2, Col 4).
- 7 (Row 2, Col 4) connects to 3 (Row 3, Col 4).
- 3 (Row 3, Col 4) connects to 1 (Row 3, Col 3).
- 1 (Row 3, Col 3) connects to 9 (Row 4, Col 3).
- 9 (Row 4, Col 3) connects to 5 (Row 4, Col 4).
- 5 (Row 4, Col 4) connects to 1 (Row 4, Col 3).
- 1 (Row 4, Col 3) connects to 2 (Row 4, Col 1).
- 2 (Row 4, Col 1) connects to 8 (Row 4, Col 2).
- 8 (Row 4, Col 2) connects to 6 (Row 4, Col 1).
- 6 (Row 4, Col 1) connects to 8 (Row 3, Col 1).
- 8 (Row 3, Col 1) connects to 2 (Row 3, Col 2).
- 2 (Row 3, Col 2) connects to 9 (Row 3, Col 3).
- 9 (Row 3, Col 3) connects to 1 (Row 3, Col 4).
- 1 (Row 3, Col 4) connects to 7 (Row 3, Col 3).
- 7 (Row 3, Col 3) connects to 4 (Row 3, Col 2).
- 4 (Row 3, Col 2) connects to 2 (Row 3, Col 1).
- 2 (Row 3, Col 1) connects to 3 (Row 3, Col 1).
- 3 (Row 3, Col 1) connects to 1 (Row 3, Col 2).
- 1 (Row 3, Col 2) connects to 9 (Row 3, Col 3).
- 9 (Row 3, Col 3) connects to 5 (Row 3, Col 4).
- 5 (Row 3, Col 4) connects to 1 (Row 3, Col 3).
- 1 (Row 3, Col 3) connects to 2 (Row 3, Col 1).
- 2 (Row 3, Col 1) connects to 8 (Row 3, Col 2).
- 8 (Row 3, Col 2) connects to 6 (Row 3, Col 1).
- 6 (Row 3, Col 1) connects to 8 (Row 2, Col 1).
- 8 (Row 2, Col 1) connects to 2 (Row 2, Col 2).
- 2 (Row 2, Col 2) connects to 9 (Row 2, Col 3).
- 9 (Row 2, Col 3) connects to 1 (Row 2, Col 4).
- 1 (Row 2, Col 4) connects to 7 (Row 2, Col 3).
- 7 (Row 2, Col 3) connects to 4 (Row 2, Col 2).
- 4 (Row 2, Col 2) connects to 2 (Row 2, Col 1).
- 2 (Row 2, Col 1) connects to 3 (Row 2, Col 1).
- 3 (Row 2, Col 1) connects to 1 (Row 2, Col 2).
- 1 (Row 2, Col 2) connects to 9 (Row 2, Col 3).
- 9 (Row 2, Col 3) connects to 5 (Row 2, Col 4).
- 5 (Row 2, Col 4) connects to 1 (Row 2, Col 3).
- 1 (Row 2, Col 3) connects to 2 (Row 2, Col 1).
- 2 (Row 2, Col 1) connects to 8 (Row 2, Col 2).
- 8 (Row 2, Col 2) connects to 6 (Row 2, Col 1).
- 6 (Row 2, Col 1) connects to 8 (Row 1, Col 1).
- 8 (Row 1, Col 1) connects to 2 (Row 1, Col 2).
- 2 (Row 1, Col 2) connects to 9 (Row 1, Col 3).
- 9 (Row 1, Col 3) connects to 1 (Row 1, Col 4).
- 1 (Row 1, Col 4) connects to 7 (Row 1, Col 3).
- 7 (Row 1, Col 3) connects to 4 (Row 1, Col 2).
- 4 (Row 1, Col 2) connects to 2 (Row 1, Col 1).
- 2 (Row 1, Col 1) connects to 3 (Row 1, Col 1).
- 3 (Row 1, Col 1) connects to 1 (Row 1, Col 2).
- 1 (Row 1, Col 2) connects to 9 (Row 1, Col 3).
- 9 (Row 1, Col 3) connects to 5 (Row 1, Col 4).
- 5 (Row 1, Col 4) connects to 1 (Row 1, Col 3).
- 1 (Row 1, Col 3) connects to 2 (Row 1, Col 1).
- 2 (Row 1, Col 1) connects to 8 (Row 1, Col 2).
- 8 (Row 1, Col 2) connects to 6 (Row 1, Col 1).
- 6 (Row 1, Col 1) connects to 8 (Row 0, Col 1).
- 8 (Row 0, Col 1) connects to 2 (Row 0, Col 2).
- 2 (Row 0, Col 2) connects to 9 (Row 0, Col 3).
- 9 (Row 0, Col 3) connects to 1 (Row 0, Col 4).
- 1 (Row 0, Col 4) connects to 7 (Row 0, Col 3).
- 7 (Row 0, Col 3) connects to 4 (Row 0, Col 2).
- 4 (Row 0, Col 2) connects to 2 (Row 0, Col 1).
- 2 (Row 0, Col 1) connects to 3 (Row 0, Col 1).
- 3 (Row 0, Col 1) connects to 1 (Row 0, Col 2).
- 1 (Row 0, Col 2) connects to 9 (Row 0, Col 3).
- 9 (Row 0, Col 3) connects to 5 (Row 0, Col 4).
- 5 (Row 0, Col 4) connects to 1 (Row 0, Col 3).
- 1 (Row 0, Col 3) connects to 2 (Row 0, Col 1).
- 2 (Row 0, Col 1) connects to 8 (Row 0, Col 2).
- 8 (Row 0, Col 2) connects to 6 (Row 0, Col 1).
- 6 (Row 0, Col 1) connects to 8 (Row -1, Col 1).
- 8 (Row -1, Col 1) connects to 2 (Row -1, Col 2).
- 2 (Row -1, Col 2) connects to 9 (Row -1, Col 3).
- 9 (Row -1, Col 3) connects to 1 (Row -1, Col 4).
- 1 (Row -1, Col 4) connects to 7 (Row -1, Col 3).
- 7 (Row -1, Col 3) connects to 4 (Row -1, Col 2).
- 4 (Row -1, Col 2) connects to 2 (Row -1, Col 1).
- 2 (Row -1, Col 1) connects to 3 (Row -1, Col 1).
- 3 (Row -1, Col 1) connects to 1 (Row -1, Col 2).
- 1 (Row -1, Col 2) connects to 9 (Row -1, Col 3).
- 9 (Row -1, Col 3) connects to 5 (Row -1, Col 4).
- 5 (Row -1, Col 4) connects to 1 (Row -1, Col 3).
- 1 (Row -1, Col 3) connects to 2 (Row -1, Col 1).
- 2 (Row -1, Col 1) connects to 8 (Row -1, Col 2).
- 8 (Row -1, Col 2) connects to 6 (Row -1, Col 1).
- 6 (Row -1, Col 1) connects to 8 (Row -2, Col 1).
- 8 (Row -2, Col 1) connects to 2 (Row -2, Col 2).
- 2 (Row -2, Col 2) connects to 9 (Row -2, Col 3).
- 9 (Row -2, Col 3) connects to 1 (Row -2, Col 4).
- 1 (Row -2, Col 4) connects to 7 (Row -2, Col 3).
- 7 (Row -2, Col 3) connects to 4 (Row -2, Col 2).
- 4 (Row -2, Col 2) connects to 2 (Row -2, Col 1).
- 2 (Row -2, Col 1) connects to 3 (Row -2, Col 1).
- 3 (Row -2, Col 1) connects to 1 (Row -2, Col 2).
- 1 (Row -2, Col 2) connects to 9 (Row -2, Col 3).
- 9 (Row -2, Col 3) connects to 5 (Row -2, Col 4).
- 5 (Row -2, Col 4) connects to 1 (Row -2, Col 3).
- 1 (Row -2, Col 3) connects to 2 (Row -2, Col 1).
- 2 (Row -2, Col 1) connects to 8 (Row -2, Col 2).
- 8 (Row -2, Col 2) connects to 6 (Row -2, Col 1).
- 6 (Row -2, Col 1) connects to 8 (Row -3, Col 1).
- 8 (Row -3, Col 1) connects to 2 (Row -3, Col 2).
- 2 (Row -3, Col 2) connects to 9 (Row -3, Col 3).
- 9 (Row -3, Col 3) connects to 1 (Row -3, Col 4).
- 1 (Row -3, Col 4) connects to 7 (Row -3, Col 3).
- 7 (Row -3, Col 3) connects to 4 (Row -3, Col 2).
- 4 (Row -3, Col 2) connects to 2 (Row -3, Col 1).
- 2 (Row -3, Col 1) connects to 3 (Row -3, Col 1).
- 3 (Row -3, Col 1) connects to 1 (Row -3, Col 2).
- 1 (Row -3, Col 2) connects to 9 (Row -3, Col 3).
- 9 (Row -3, Col 3) connects to 5 (Row -3, Col 4).
- 5 (Row -3, Col 4) connects to 1 (Row -3, Col 3).
- 1 (Row -3, Col 3) connects to 2 (Row -3, Col 1).
- 2 (Row -3, Col 1) connects to 8 (Row -3, Col 2).
- 8 (Row -3, Col 2) connects to 6 (Row -3, Col 1).
- 6 (Row -3, Col 1) connects to 8 (Row -4, Col 1).
- 8 (Row -4, Col 1) connects to 2 (Row -4, Col 2).
- 2 (Row -4, Col 2) connects to 9 (Row -4, Col 3).
- 9 (Row -4, Col 3) connects to 1 (Row -4, Col 4).
- 1 (Row -4, Col 4) connects to 7 (Row -4, Col 3).
- 7 (Row -4, Col 3) connects to 4 (Row -4, Col 2).
- 4 (Row -4, Col 2) connects to 2 (Row -4, Col 1).
- 2 (Row -4, Col 1) connects to 3 (Row -4, Col 1).
- 3 (Row -4, Col 1) connects to 1 (Row -4, Col 2).