

Instructions

In each grid, place each digit 1 through 9 using the arithmetic clues and number soup pieces given.

Soup pieces must not be rotated or reflected when added to the grid.

Arithmetic clues run from top to bottom or left to right depending on their orientation.

In some puzzles, adjacent digits without a sign between them should be treated as a multi-digit number. For example, a 1 and a 2 with no sign between would be 12.

A 3x3 grid with arithmetic clues and soup pieces. Clues: 5 (left), 3 (bottom), 8 (bottom), 9 (bottom), 4 (bottom), 3 (bottom), 6 (right), 2 (right), 7 (right), 1 (right), 5 (right). Soup pieces: a vertical bar with a multiplication sign (x) at the top, an equals sign (=) in the middle, and a multiplication sign (x) at the bottom; a horizontal bar with a multiplication sign (x) at the left, an equals sign (=) in the middle, and a plus sign (+) at the right; a vertical bar with an equals sign (=) in the middle and a plus sign (+) at the bottom.

A 3x3 grid with arithmetic clues and soup pieces. Clues: 9 (left), 4 (left), 6 (left), 2 (left), 5 (left), 3 (left), 7 (bottom), 1 (bottom), 8 (bottom), 17 (top), 2 (right), 3 (right), 35 (right). Soup pieces: a vertical bar with a plus sign (+) at the top, an equals sign (=) in the middle, and a multiplication sign (x) at the bottom; a horizontal bar with a plus sign (+) at the left, an equals sign (=) in the middle, and a multiplication sign (x) at the right; a vertical bar with a plus sign (+) at the top, a minus sign (-) in the middle, and an equals sign (=) at the bottom; a horizontal bar with a multiplication sign (x) at the left, a multiplication sign (x) in the middle, and an equals sign (=) at the right.

A 3x3 grid with arithmetic clues and soup pieces. Clues: 1 (top), 3 (top), 4 (top), 7 (top), 9 (top), 2 (right), 8 (right), 5 (right), 6 (right), 3 (left), 1 (bottom), 4 (bottom), 5 (bottom). Soup pieces: a horizontal bar with an equals sign (=) at the left, a plus sign (+) in the middle, and a plus sign (+) at the right; a vertical bar with an equals sign (=) in the middle and a minus sign (-) at the bottom; a vertical bar with an equals sign (=) in the middle and a multiplication sign (x) at the bottom; a vertical bar with an equals sign (=) in the middle and a multiplication sign (x) at the bottom.

A 3x3 grid with arithmetic clues and soup pieces. Clues: 3 (left), 6 (left), 2 (left), 1 (bottom), 7 (bottom), 9 (bottom), 8 (bottom), 5 (bottom), 4 (bottom), 10 (top), 7 (right). Soup pieces: a vertical bar with a plus sign (+) at the top, an equals sign (=) in the middle, and a plus sign (+) at the bottom; a horizontal bar with a plus sign (+) at the left, an equals sign (=) in the middle, and an equals sign (=) at the right.

A 3x3 grid with arithmetic clues and soup pieces. Clues: 1 (top), 30 (top), 9 (top), 3 (top), 7 (top), 4 (right), 5 (right), 8 (right), 6 (right), 2 (right), 16 (left). Soup pieces: a horizontal bar with an equals sign (=) at the left, a plus sign (+) in the middle, and a plus sign (+) at the right; a vertical bar with an equals sign (=) in the middle and a plus sign (+) at the bottom; a horizontal bar with a multiplication sign (x) at the left, a multiplication sign (x) in the middle, and an equals sign (=) at the right; a horizontal bar with a plus sign (+) at the left, an equals sign (=) in the middle, and an equals sign (=) at the right.

A 3x3 grid with arithmetic clues and soup pieces. Clues: 7 (top), 9 (top), 8 (top), 2 (top), 4 (top), 3 (left), 5 (left), 6 (left), 1 (left), 24 (right). Soup pieces: a horizontal bar with a multiplication sign (x) at the left, a multiplication sign (x) in the middle, and an equals sign (=) at the right; a horizontal bar with an equals sign (=) at the left, a plus sign (+) in the middle, and a plus sign (+) at the right; a horizontal bar with an equals sign (=) at the left, an equals sign (=) in the middle, and an equals sign (=) at the right; a horizontal bar with a plus sign (+) at the left, a plus sign (+) in the middle, and an equals sign (=) at the right.

Extras

These are extra clues available for the Number Soup puzzles on the first page. The clues make the puzzles easier for younger solvers and students.

What does the 5 outside the grid mean for the last column?

8
3

What digits multiply to make 35?

3	8
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What two digits make 3?

6	5
---	---

Where can the 6/2 piece go? How do the options affect the bottom row?

3	4
---	---

What must the digit in the center of the grid be?

2
1

What digits can go in the last row?

2
4

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