

FOUR-BY-FOUR

LOGIC PUZZLES

Addition Within 20

Addition Puzzle 1 Name: _____

| | | | | |
|----------|----------|----------|----------|--|
| | | | | |
| 3 | | | | |
| | | | 3 | |
| | 3 | 3 | | |
| 15 | 12 | 14 | 17 | |

Workspace

Addition Puzzle 2 Name: _____

| | | | | |
|----------|----------|----|----------|----|
| | 4 | | | 19 |
| | | | | 10 |
| 4 | | | 4 | 15 |
| | | | 4 | 12 |
| 13 | 7 | 20 | 16 | |

Workspace

Addition Puzzle 3 Name: _____

| | | | | |
|----------|----|----------|----------|----|
| | | 1 | | 7 |
| | | | | 20 |
| | | 1 | 1 | 18 |
| 1 | | | | 10 |
| 19 | 17 | 6 | 13 | |

Workspace












| | | | | |
|----------|----------|----------|----------|----|
| | | | | 16 |
| 3 | | | | 16 |
| | | | 3 | 11 |
| | 3 | 3 | | 15 |
| 15 | 12 | 14 | 17 | |

Critical thinking meets addition practice!

Here's an engaging way for
your students to build their
reasoning skills while
developing their
mathematical stamina and
problem-solving skills!



DEEP
THINKING

Addition Puzzle 1 Name: _____

| | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|  |  |  |  | 16 |
| 3 |  |  |  | 16 |
|  |  |  | 3 | 11 |
|  | 3 | | | |













15 12

Workspace

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Addition Within 20 Puzzles

Addition Puzzle 2 Name: _____

| | | | | |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|  | 4 |  |  | |
|  |  |  |  | |
| 4 |  |  | 4 | |
|  |  |  | 4 | |







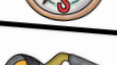





13 7 20 16

Workspace

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Addition Within 20 Puzzles

Addition Puzzle 3 Name: _____

| | | | | |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|
|  |  | 1 |  | 7 |
|  |  |  |  | 20 |
|  |  | 1 | 1 | 18 |
| 1 |  |  |  | 10 |

19 17 6 13

Workspace

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These puzzles incorporate early **algebraic thinking** in a visual, non-intimidating format! Students will:

- **Analyze variables:** Treat the icons as symbols representing unknown numbers.
- **Cross-reference data:** Look at the grid horizontally and vertically to compare row and column sums.
- **Use deductive reasoning:** Apply reasoning and mental math strategies to solve the mystery.

| | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|  |  |  |  | 16 |
| 3 |  |  |  | 16 |
|  |  |  | 3 | 11 |
|  | 3 | 3 |  | |
| 15 | 12 | | | |

**REINFORCES
INVERSE RELATIONSHIP
BETWEEN
ADDITION &
SUBTRACTION**

Printable & Digital Options Included!

Two different options designed to fit into your unique classroom:

- **Printable Version:** Includes a student workspace encouraging students to show their thinking; use in small math groups or for independent practice
- **Digital Version:** Perfect for whole-class math talks or math warm-ups

Addition Puzzle 1 Name: _____

| | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|  |  |  |  | 16 |
| 3 |  |  |  | 16 |
|  |  |  | 3 | 11 |
|  | 3 | 3 |  | 15 |
| 15 | 12 | 14 | 17 | |

Workspace

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Addition Within 20 Puzzles

**RIGOROUS
PROBLEM-
SOLVING**



What's Included?

- 20 Logic Puzzles in both **printable and digital** formats with sums to 20
- Dedicated **workspace to represent thinking.** Students can write calculations, draw part-part-wholes or represent their thinking in any other way!
- **Answer Key** for easy self-checking

**TRICKIER
THAN THEY LOOK**

Puzzle 3: A 4x3 grid with icons and numbers. Row 1: Compass, 1, Compass, sum 7. Row 2: Flashlight, Compass, Flashlight, sum 20. Row 3: Backpack, 1, 1, sum 18. Row 4: Compass, Compass, Flashlight, sum 10. Column sums: 17, 6, 13.

Puzzle 1: A 4x3 grid with icons and numbers. Row 1: Sun, Flip-flops, Flip-flops, sum 16. Row 2: Flip-flops, Beach ball, Beach ball, sum 16. Row 3: Sun, Sun, 3, sum 11. Row 4: Backpack, 3, Flip-flops, sum 15. Column sums: 2, 14, 17.

Puzzle: A 4x4 grid with icons and numbers. Row 1: Watermelon, Apple, Watermelon, Apple, sum 19. Row 2: Apple, Apple, Watermelon, Apple, sum 10. Row 3: 4, Apple, Strawberry, 4, sum 15. Row 4: Apple, Apple, Strawberry, 4, sum 12. Column sums: 13, 7, 20, 16.

Legend: Flashlight = Backpack = Boot = Sun = Flip-flops = Beach ball =

Workspace: A large empty box for student work.

Legend: Apple = Watermelon = Strawberry =

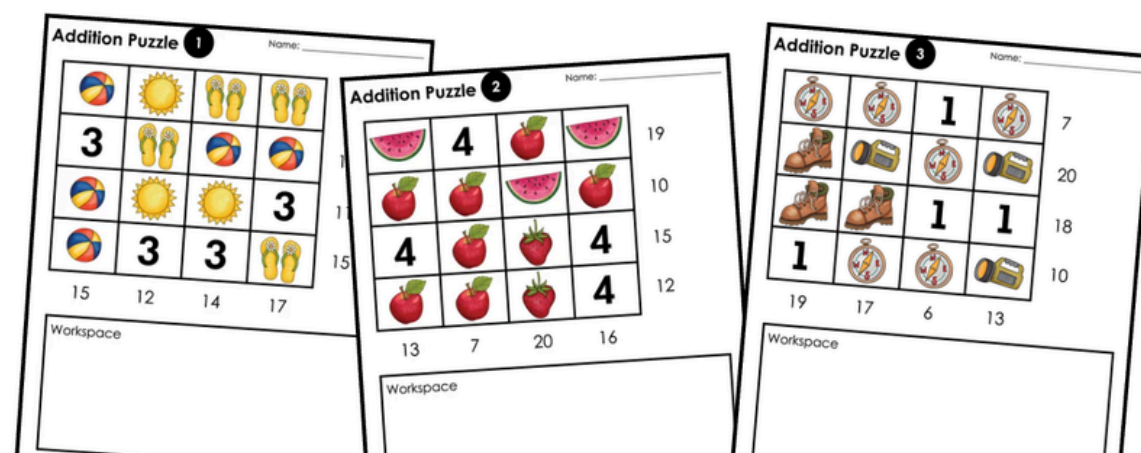
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Ready to make
logical, critical
thinking a part of
your daily routine?

FOUR-BY-FOUR

LOGIC PUZZLES

Addition Within 20



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DIGITAL & PRINTABLE