

# FOUR-BY-FOUR

# LOGIC PUZZLES

## Addition Within 100

Addition Puzzle 19

Name: \_\_\_\_\_

|    |    |    |   |    |
|----|----|----|---|----|
| ♥  | ♥  | 26 | ♥ | 56 |
| ♠  | 26 | ♦  | ♥ |    |
| ♠  | ♦  | 26 | ♠ |    |
| 26 | ♥  | ♦  | ♦ | 67 |

84    69    98    67

Workspace

Addition Puzzle 1

Name: \_\_\_\_\_

|         |         |        |         |  |
|---------|---------|--------|---------|--|
| Ketchup | 21      | Burger | Mustard |  |
| Burger  | Mustard | 21     | 21      |  |
| 21      | Ketchup | Burger | Ketchup |  |
| Burger  | Mustard | Burger | 21      |  |

81    95    78    90

Workspace

Addition Puzzle 11

Name: \_\_\_\_\_

|         |         |          |          |    |
|---------|---------|----------|----------|----|
| 21      | Cabbage | Cabbage  | Carrot   | 95 |
| 21      | Carrot  | Broccoli | Broccoli | 81 |
| Cabbage | Carrot  | Broccoli | 21       | 88 |
| 21      | Cabbage | Carrot   | Carrot   | 79 |

93    88    90    72

Workspace

|         |         |          |          |    |
|---------|---------|----------|----------|----|
| 21      | Cabbage | Cabbage  | Carrot   | 95 |
| 21      | Carrot  | Broccoli | Broccoli | 81 |
| Cabbage | Carrot  | Broccoli | 21       | 88 |
| 21      | Cabbage | Carrot   | Carrot   | 79 |

93    88    90    72

# 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 19 Name: \_\_\_\_\_

|    |    |    |   |    |
|----|----|----|---|----|
| ♥  | ♥  | 26 | ♥ | 56 |
| ♠  | 26 | ♦  | ♥ | 83 |
| ♠  | ♦  | 26 |   |    |
| 26 | ♥  | ♦  |   |    |

84      69      98

Workspace

♠ =

Addition Within 100 Puzzles

Addition Puzzle 1 Name: \_\_\_\_\_

|    |    |    |    |
|----|----|----|----|
| 🍷  | 21 | 🍔  |    |
| 🍔  | 🍷  | 21 | 21 |
| 21 | 🍷  | 🍔  | 🍷  |
| 🍔  | 🍷  | 🍔  |    |

81      95      7

Workspace

🍷 =      🍔 =

Addition Within 100 Puzzles

Addition Puzzle 11 Name: \_\_\_\_\_













|    |   |   |    |    |
|----|---|---|----|----|
| 21 | 🥬 | 🥬 | 🥕  | 95 |
| 21 | 🥕 | 🥦 | 🥦  | 81 |
| 🥬  | 🥕 | 🥦 | 21 | 88 |
| 21 | 🥬 | 🥕 | 🥕  | 79 |

93      88      90      72

Workspace

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.

|   |   |   |   |    |
|---|---|---|---|----|
| 21  |  |  |  | 95 |
| 21  |  |  |  | 81 |
|  |  |  | 21  | 88 |
| 21  |  |  |  | 79 |
| 93  | 88  |   |   |    |

**REINFORCES  
INVERSE RELATIONSHIP  
BETWEEN  
ADDITION &  
SUBTRACTION**








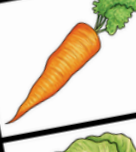




# Printable & Digital Options Included!

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 11

Name: \_\_\_\_\_

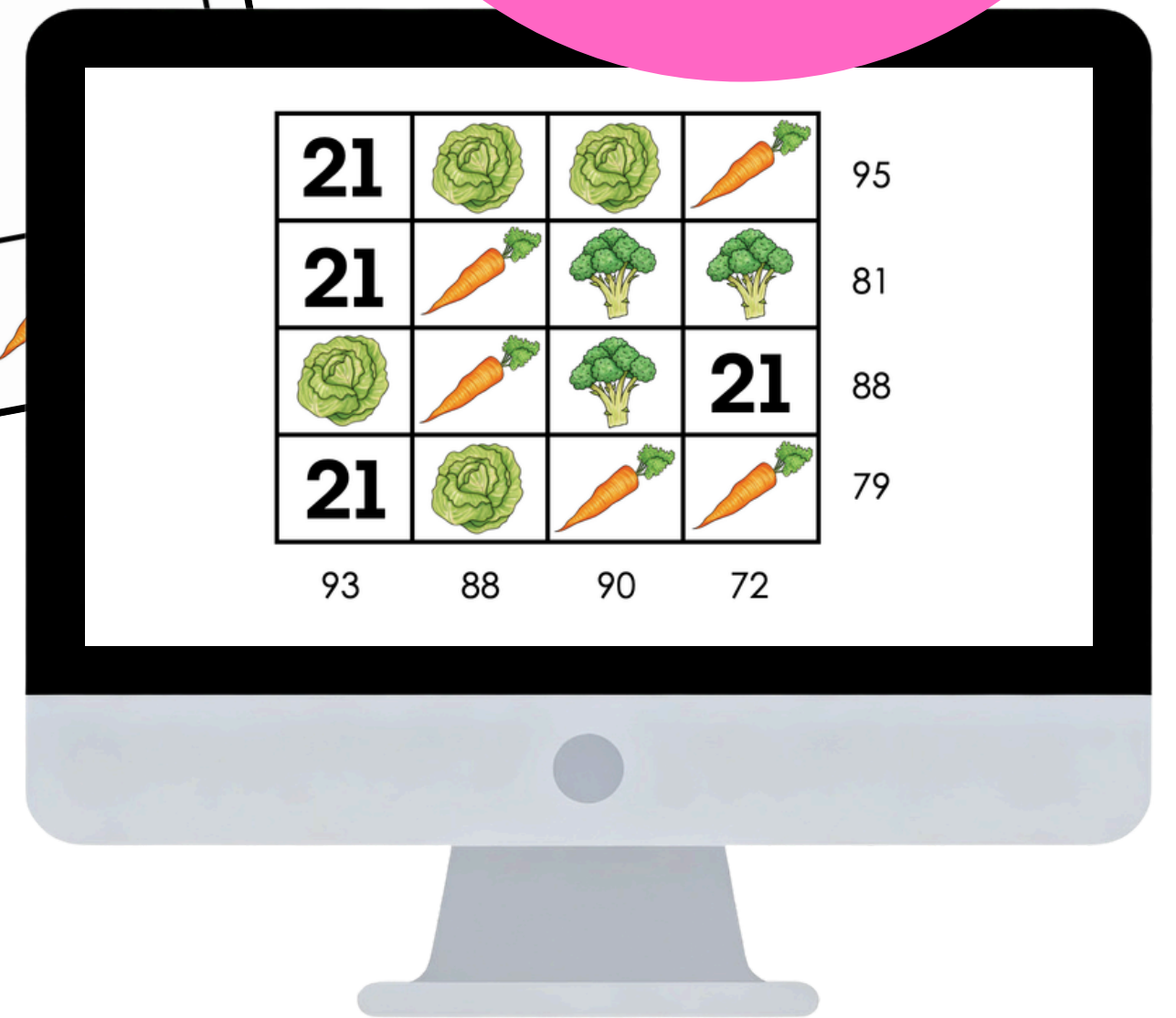
|    |   |   |   |    |    |
|----|---|---|---|----|----|
| 21 |  |  |  | 95 |    |
| 21 |  |  |  | 81 |    |
|    |  |  |  | 21 | 88 |
| 21 |  |  |  | 79 |    |
|    | 93  | 88  | 90  | 72 |    |

Workspace

 =  = 

Addition Within 100 Puzzles

RIGOROUS  
PROBLEM-  
SOLVING



# What's Included?

- 20 Logic Puzzles in both **printable and digital** formats with **sums to 100**
- 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**

The image displays three sample addition puzzles and a central pink circle. The circle contains the text "TRICKIER THAN THEY LOOK".

**Puzzle 11:** A 4x4 grid with sums to the right of each row and below each column. The grid contains the number 21 and various vegetable icons (broccoli, carrot, lettuce).

|    |    |    |    |    |
|----|----|----|----|----|
| 21 |    |    |    | 95 |
| 21 |    |    |    | 81 |
|    |    |    | 21 | 88 |
| 21 |    |    |    | 79 |
|    | 93 | 88 | 90 | 72 |

**Workspace:** A large empty box for student work. Below it are equations:  $\text{broccoli} =$ ,  $\text{lettuce} =$ ,  $\text{carrot} =$ .

**Puzzle 1:** A 4x3 grid with sums to the right of each row and below each column. The grid contains the number 21 and icons of a hamburger, a bottle of ketchup, and a bottle of mustard.

|    |    |    |    |    |
|----|----|----|----|----|
|    | 21 |    |    |    |
|    |    | 21 |    |    |
| 21 |    |    |    |    |
|    |    |    |    |    |
|    | 81 | 95 | 78 | 90 |

**Workspace:** A large empty box for student work. Below it are equations:  $\text{ketchup} =$ ,  $\text{hamburger} =$ ,  $\text{mustard} =$ .

**Puzzle:** A 4x4 grid with sums to the right of each row and below each column. The grid contains the number 26 and icons of hearts and diamonds.

|    |    |    |    |    |
|----|----|----|----|----|
|    |    | 26 |    | 83 |
|    | 26 |    |    | 97 |
|    |    | 26 |    | 82 |
| 26 |    |    |    |    |
|    | 84 | 69 | 98 | 67 |

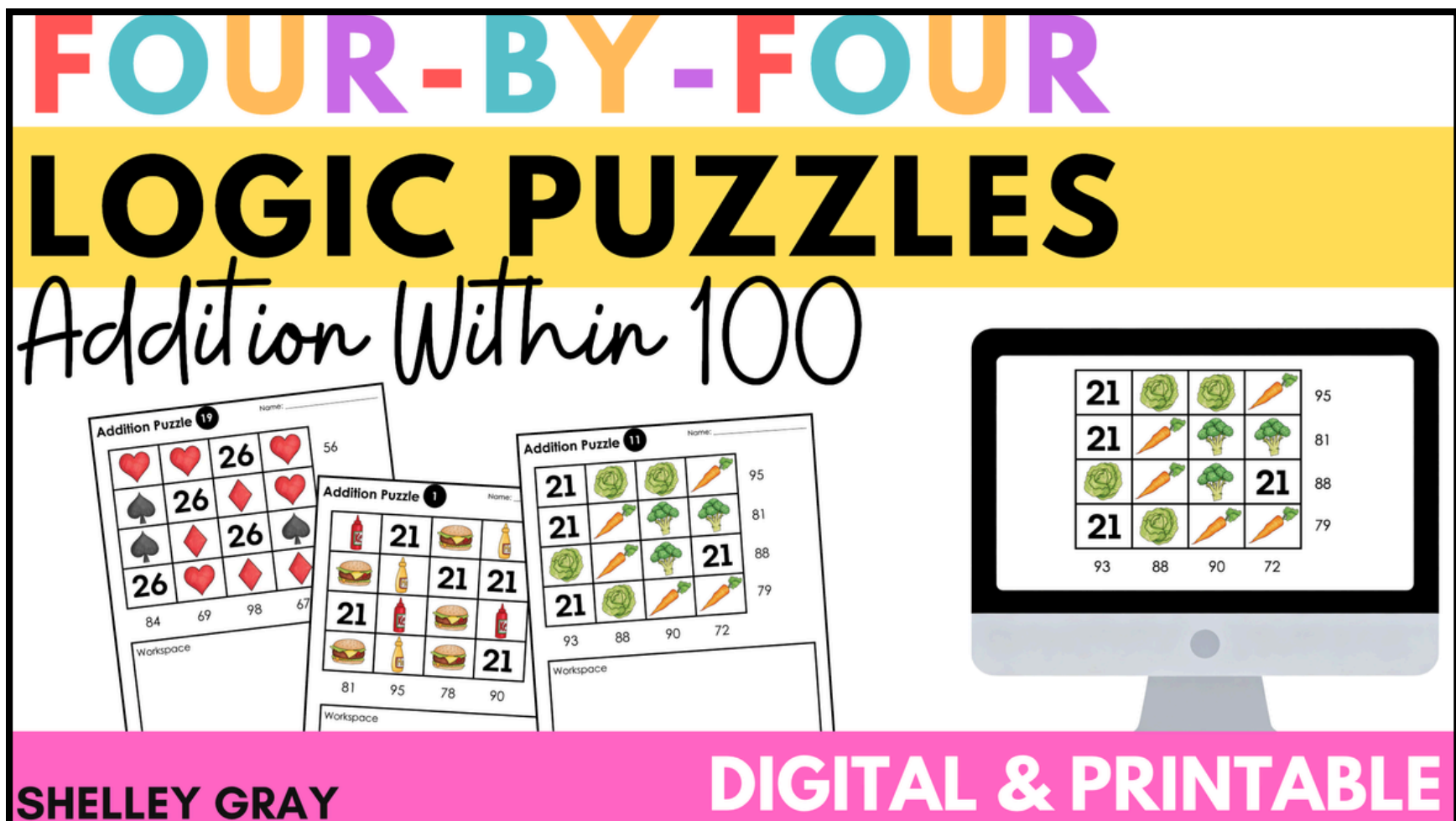
**Workspace:** A large empty box for student work. Below it are equations:  $\text{spade} =$ ,  $\text{heart} =$ ,  $\text{diamond} =$ .

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

# FOUR-BY-FOUR LOGIC PUZZLES

*Addition Within 100*



The image displays three sample 4x4 logic puzzle worksheets and a digital version on a computer monitor. Each puzzle is titled 'Addition Puzzle' and includes a 4x4 grid with numbers and symbols. The puzzles are designed to be solved by filling in the missing numbers based on the given clues. The worksheets include a 'Workspace' area for students to show their work. The digital version is shown on a computer monitor, displaying a 4x4 grid with numbers and symbols, and a 'Workspace' area below it.

**SHELLEY GRAY** **DIGITAL & PRINTABLE**