

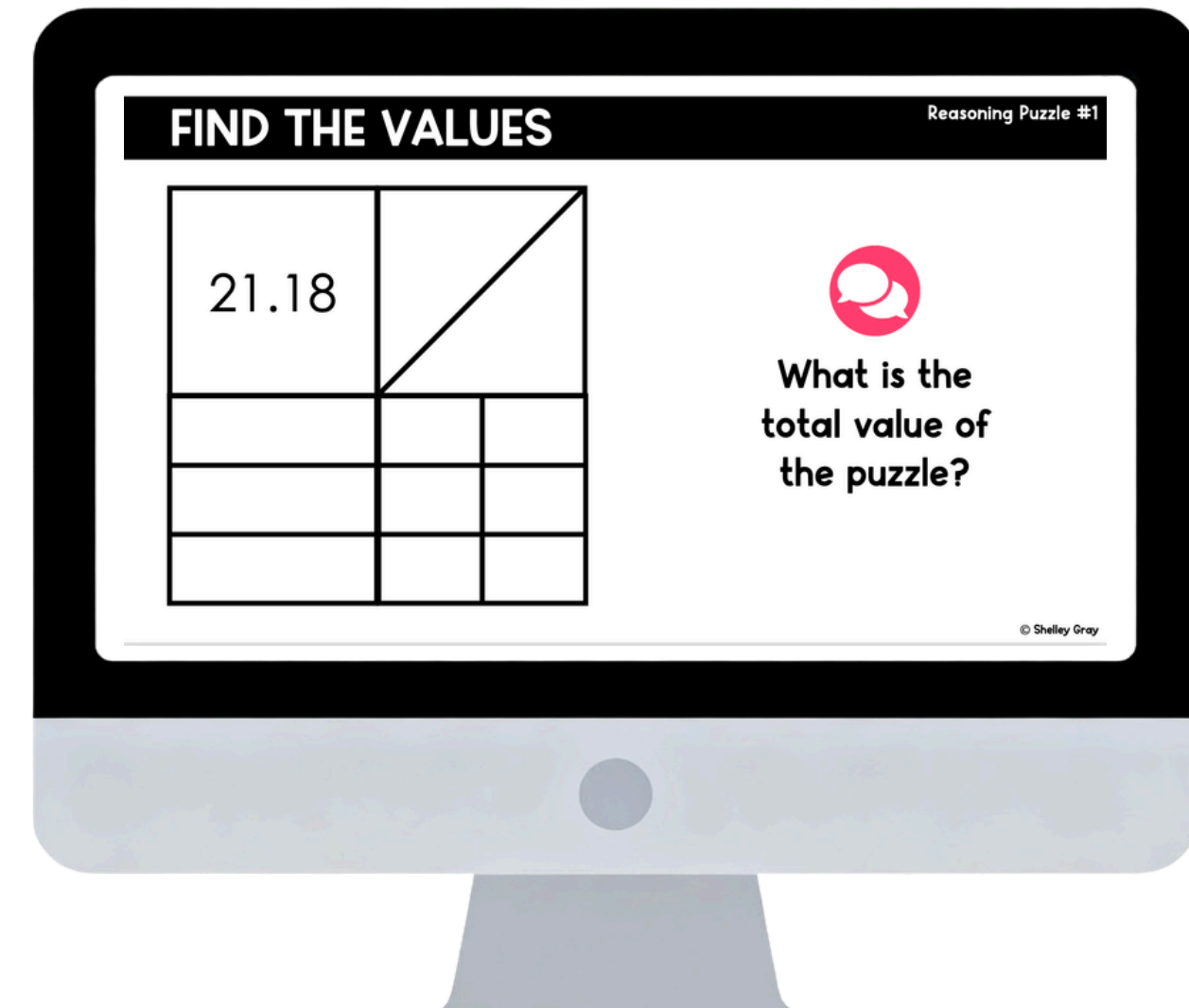
# REASONING PUZZLES

## REASONING WITH DECIMALS TO HUNDREDTHS

SHELLEY GRAY

The image shows three overlapping puzzle cards. Each card has a grid and a question: "FIND THE VALUES".

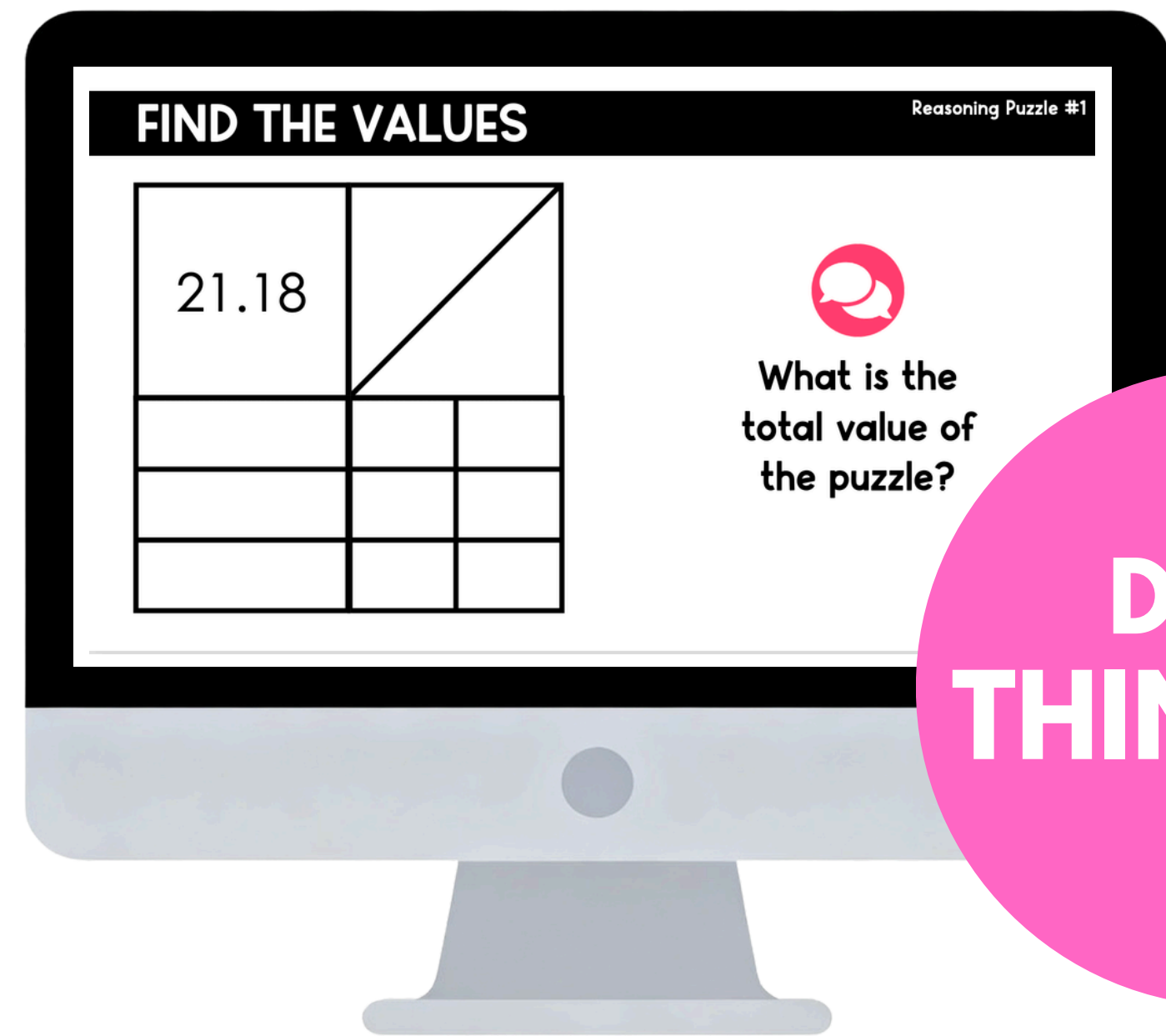
- Card 2 (top left):** The grid has a top-left square with an 'X' and a bottom-right square with the value 8.28. Below the grid is a box for the total value.
- Card 5 (middle):** The grid has a top-left square with the value 21.18 and a top-right square with a diagonal line. Below the grid is a box for the total value, which contains the number 72.48.
- Card 1 (right):** The grid has a top-left square with the value 21.18 and a top-right square with a diagonal line. Below the grid is a box for the total value.



**20**  
PUZZLES

**DIGITAL & PRINTABLE**

Looking for a **challenging**  
and engaging activity to  
encourage reasoning skills in  
your classroom?



**DEEP  
THINKING**

This resource includes twenty puzzles, designed to promote **deep thinking** and **reasoning**.

Students may use proportions, multiplicative thinking, spatial reasoning, and fraction understanding to determine the value of each space.

**FIND THE VALUES** <sup>5</sup>


Total Value: 72.

Reasoning Puzzles with Decimals

**FIND THE VALUES** <sup>1</sup>

21.18		

Total Value:

Reasoning Puzzles with Decimals © Shelley Gray

**FIND THE VALUES** <sup>2</sup>

X		
		8.28

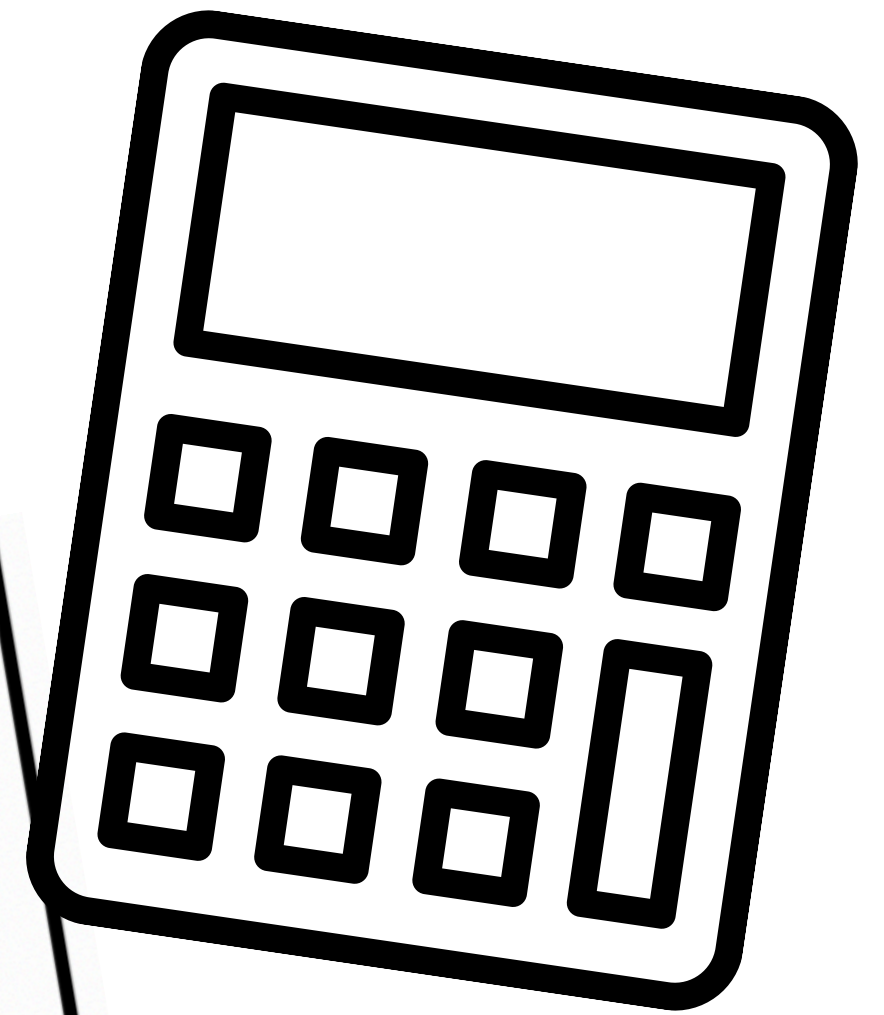
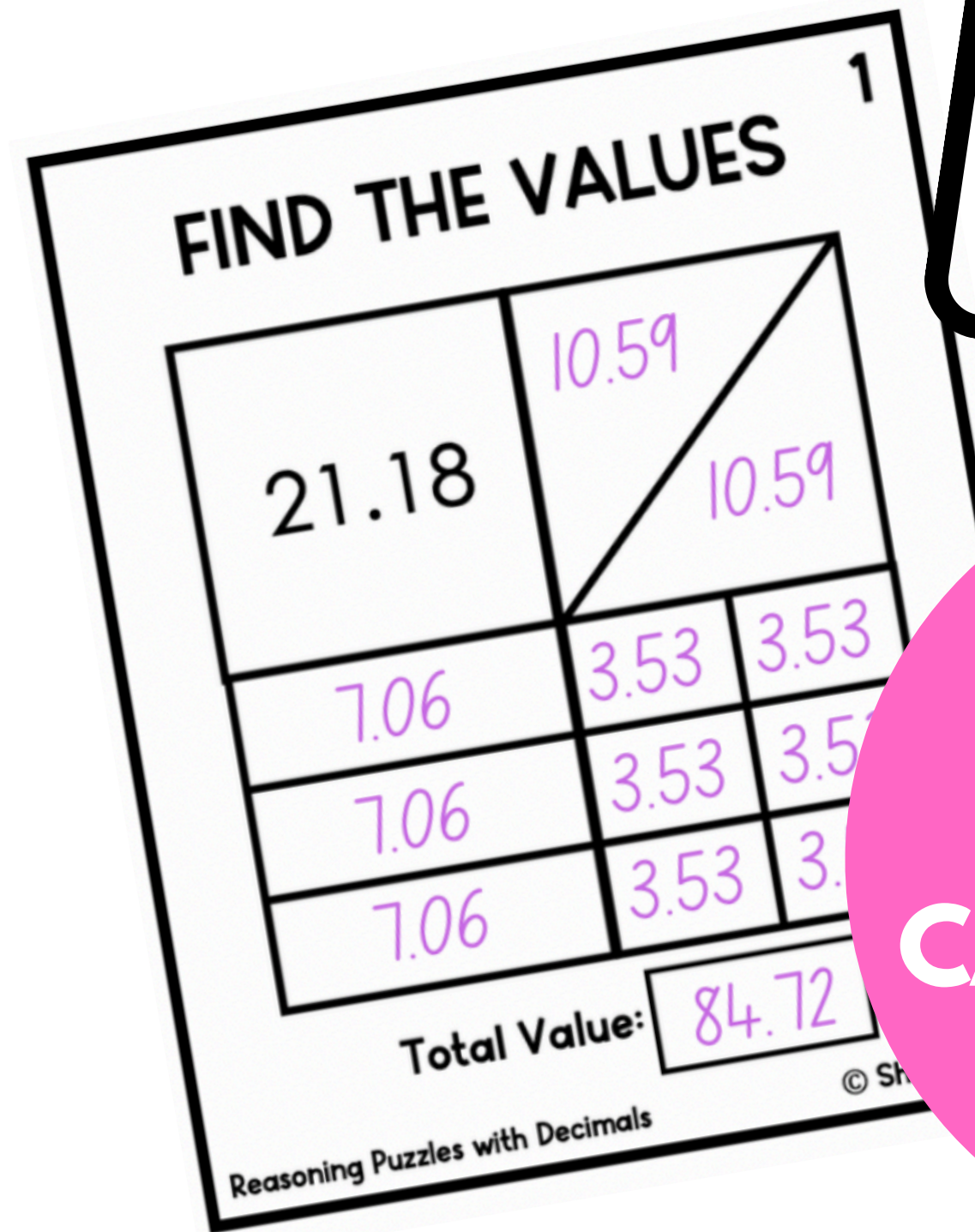
Value:

Reasoning Puzzles with Decimals © Shelley Gray

**A GREAT  
INDEPENDENT  
MATH  
STATION**

With this particular version (decimals to hundredths), you may wish to make this a calculator activity, rather than strictly mental math based.

Even with the use of a calculator, students need to understand the spatial relationships in each puzzle. Knowledge of fractions and area will be reinforced throughout.

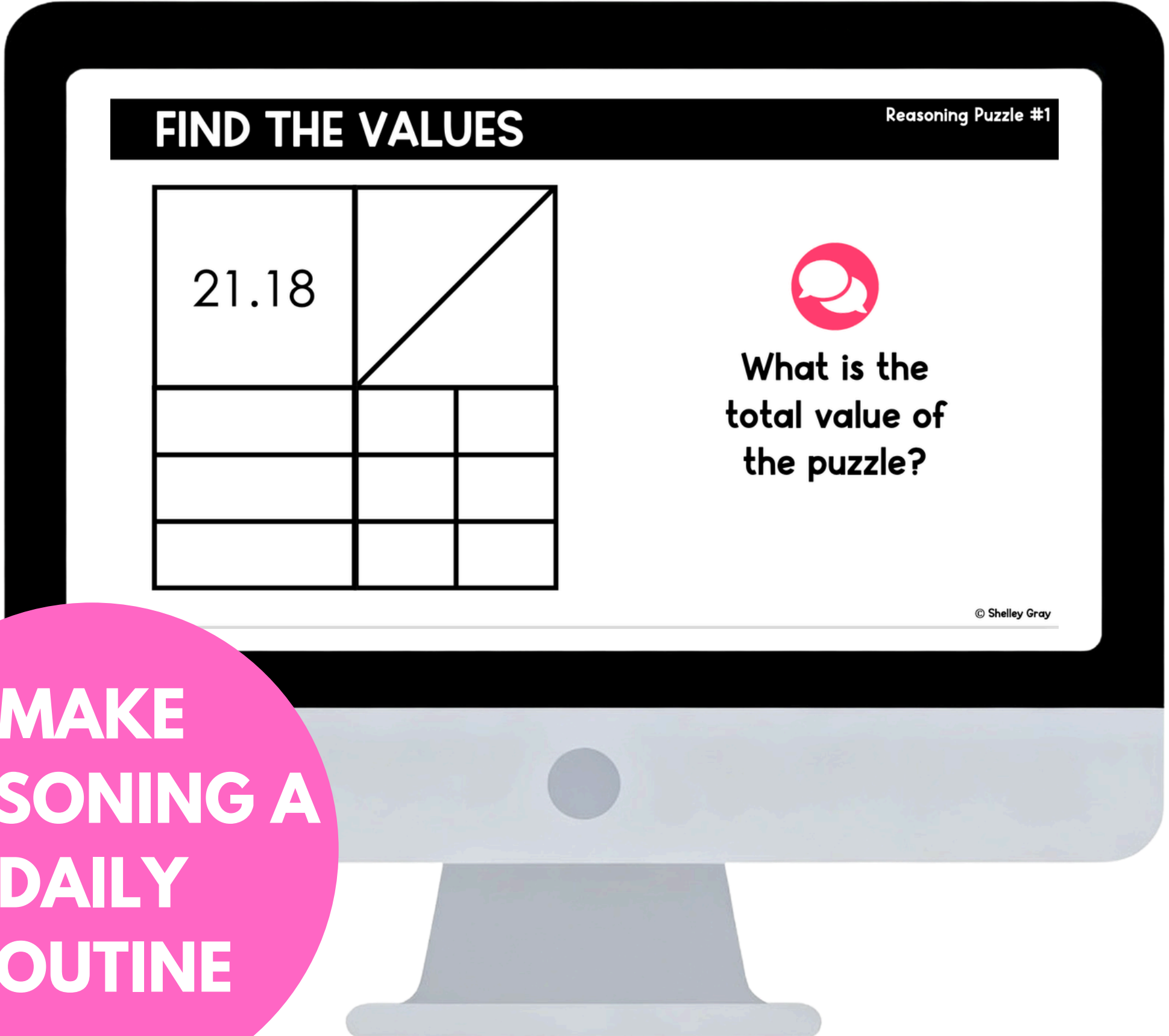


**GOOD  
PRACTICE FOR  
CALCULATOR  
USE**

This resource is included in both **print** and **digital** formats, so you can use it as an independent activity or as a whole-class math talk.

All puzzles incorporate decimal numbers to hundredths.

**MAKE REASONING A DAILY ROUTINE**



Looking for **easier versions**  
of these Reasoning Puzzles?

See them all [HERE](#).

The image displays two reasoning puzzle cards. The top card is titled "FIND THE VALUES" with a small "9" in the top right corner. It features a grid with a large empty cell on the left and a smaller grid on the right containing the number "13". The bottom card is titled "FIND THE VALUE" and contains a grid with the number "18" in one cell and a diagonal line in another. Below the grid is a box labeled "Total Value:". A pink circular bubble with white text is overlaid on the bottom right of the puzzle cards, reading "EASIER VERSIONS AVAILABLE!". At the bottom of the cards, the text "Reasoning Puzzles to 500" and "© Shelley Gray" is visible.