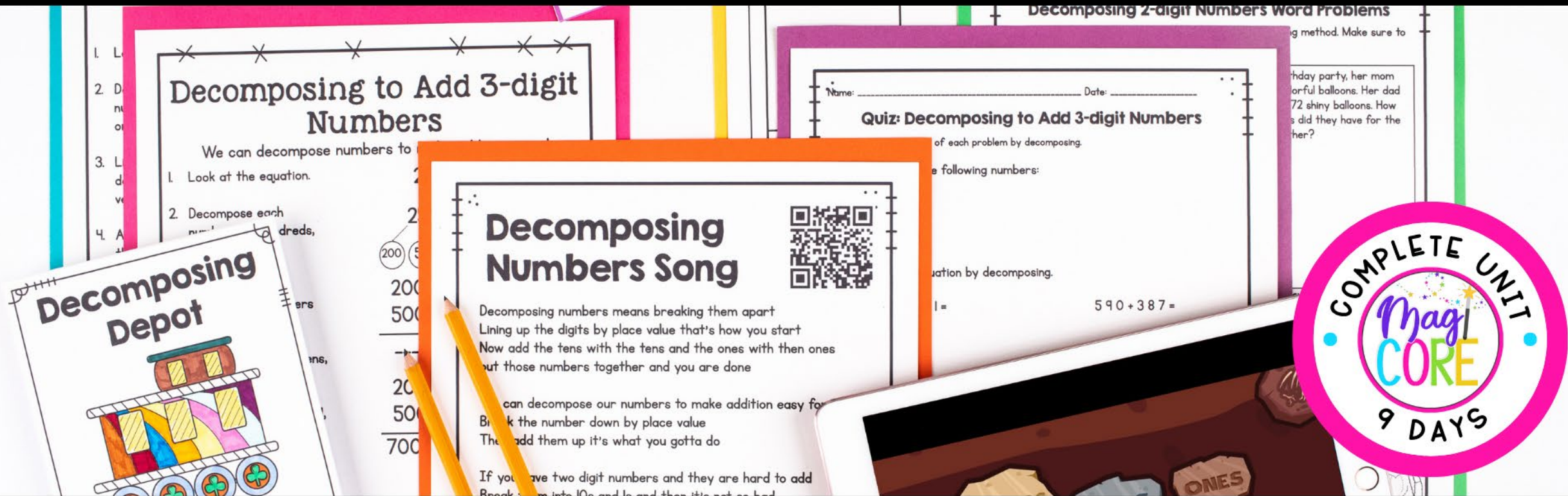


CENTER GAME, MINI-BOOK, ANCHOR
CHARTS, WORKSHEETS

2nd Grade

DECOMPOSING NUMBERS



PRINTABLE • GOOGLE SLIDES

WHAT'S INSIDE?

Decomposing

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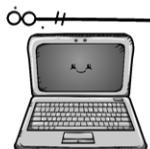
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The Google Slides version of this resource requires that you make a copy of the resource to your own Google Drive.

[CLICK HERE](#) TO MAKE A COPY OF THIS RESOURCE TO YOUR GOOGLE DRIVE.

* You MUST have a Google account in order to access this resource. [Click HERE](#) if you need help setting up a Google account.

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PRINTABLE PDFs and INTERACTIVE DIGITAL VERSIONS included

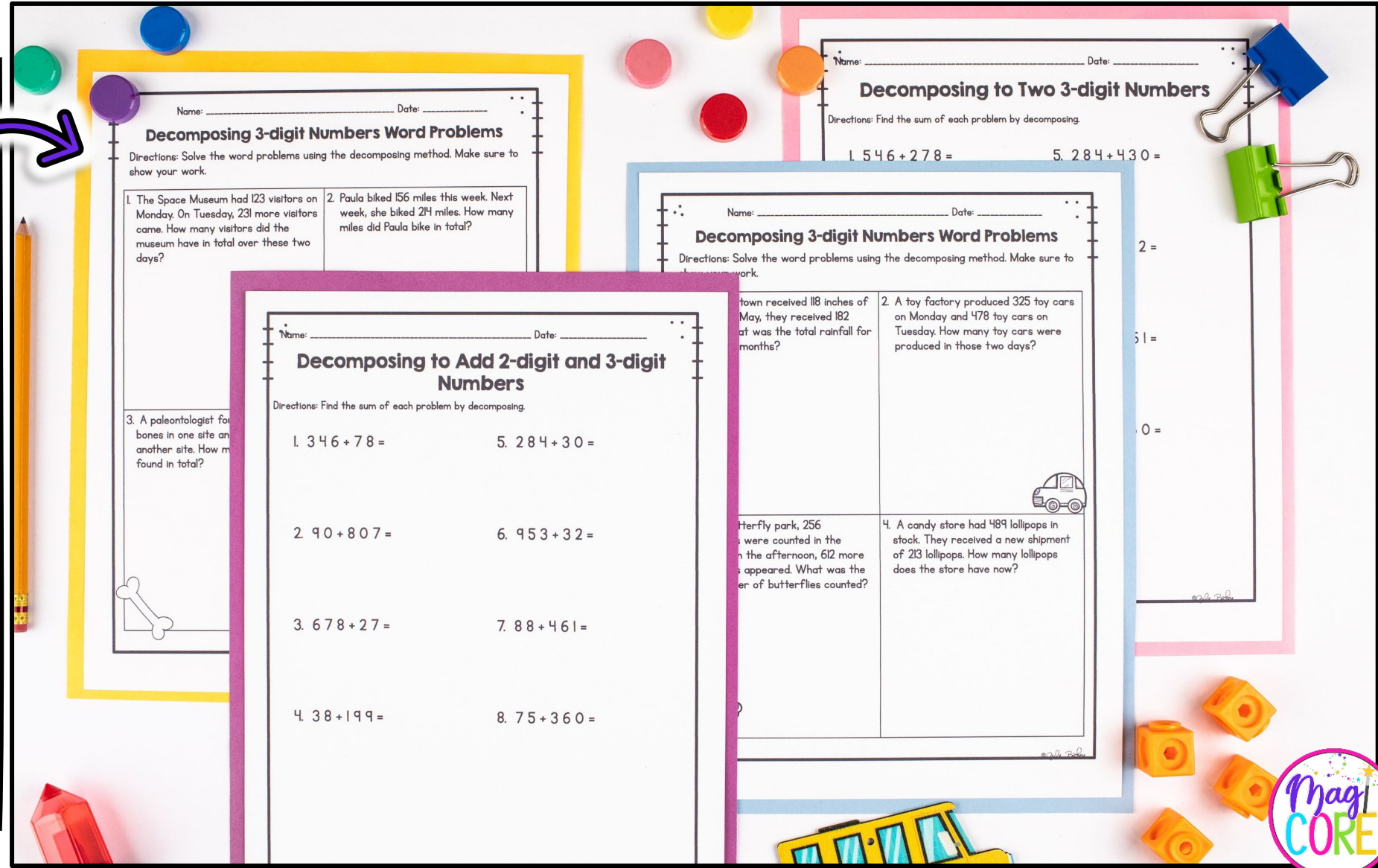
- Decomposing 2-digit and 3-digit numbers to add
- Engaging Center Game, Mini-Book, 2 Quizzes
- AND links to interactive digital versions

Printable & Digital Links Included



STANDARD ALIGNED ACTIVITIES

- Fun and aligned activities.
- Variety of worksheets and hands on engagement.
- Helps students decompose 2-digit and 3-digit numbers to add within 1,000.



ORIGINAL SONG

- Original song and videos to keep students engaged!
- Reinforces understanding of decomposing and adding using decomposing.
- Mirrors Anchor Charts.

Decomposing Numbers Song

Decomposing numbers means breaking them apart
Lining up the digits by place value that's how you start
Now add the tens with the tens and the ones with then ones
put those numbers together and you are done

We can decompose our numbers to make addition easy for you
Break the number down by place value
Then add them up it's what you gotta do

If you have two digit numbers and they are hard to add
Break them into 10s and 1s and then it's not so bad
Total up the place values vertically
Then get the sum of those answers horizontally

We can decompose our numbers to make addition easy for you
Break the number down by place value
Then add them up it's what you gotta do

Adding 3 digits together is a lot to ask
Just decompose them and it's not a hard task
The 100s go together like the 10s and 1s
And add those all up to get the sum

532
500 30

DECOMPOSE

DE COM POSE

Magi CORE

ANCHOR CHART

- 2 Anchor Charts to teach and break down the skill.
- Perfect to add into student folders or journals.
- Provides visual guidance on decomposing 2-digit and 3-digit numbers.
- Explanation and modeling.

Decomposing to Add 2-digit Numbers

We can decompose numbers to make adding easier!

1. Look at the equation.

$$56 + 32 = \underline{\quad}$$

2. Decompose each number into tens and ones.

$$\begin{array}{cc} 56 & + & 32 & = & \underline{\quad} \\ \textcircled{50} \textcircled{6} & & \textcircled{30} \textcircled{2} & & \end{array}$$

3. Line up the decomposed numbers vertically.

$$\begin{array}{r} 50 + 6 \\ 30 + 2 \\ \hline \end{array}$$

4. Add the tens and add the ones.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$50 + 6$$

5. Add the tens total together with the ones total.

$$30 + 2$$

$$\underline{80} + 8 = \underline{\quad}$$

6. Find the sum!

$$80 + 8 = \textcircled{88}$$

Decomposing to Add 3-digit Numbers

We can decompose numbers to make adding easier!

1. Look at the equation.

$$256 + 532 = \underline{\quad}$$

2. Decompose each number into hundreds, tens, and ones.

$$\begin{array}{ccccc} 256 & + & 532 & = & \underline{\quad} \\ \textcircled{200} \textcircled{50} \textcircled{6} & & \textcircled{500} \textcircled{30} \textcircled{2} & & \end{array}$$

3. Line up the decomposed numbers vertically.

$$\begin{array}{r} 200 + 50 + 6 \\ 500 + 30 + 2 \\ \hline \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

4. Add the hundreds, tens, and ones.

$$200 + 50 + 6$$

5. Add the hundreds total, the tens total, and the ones total.

$$500 + 30 + 2$$

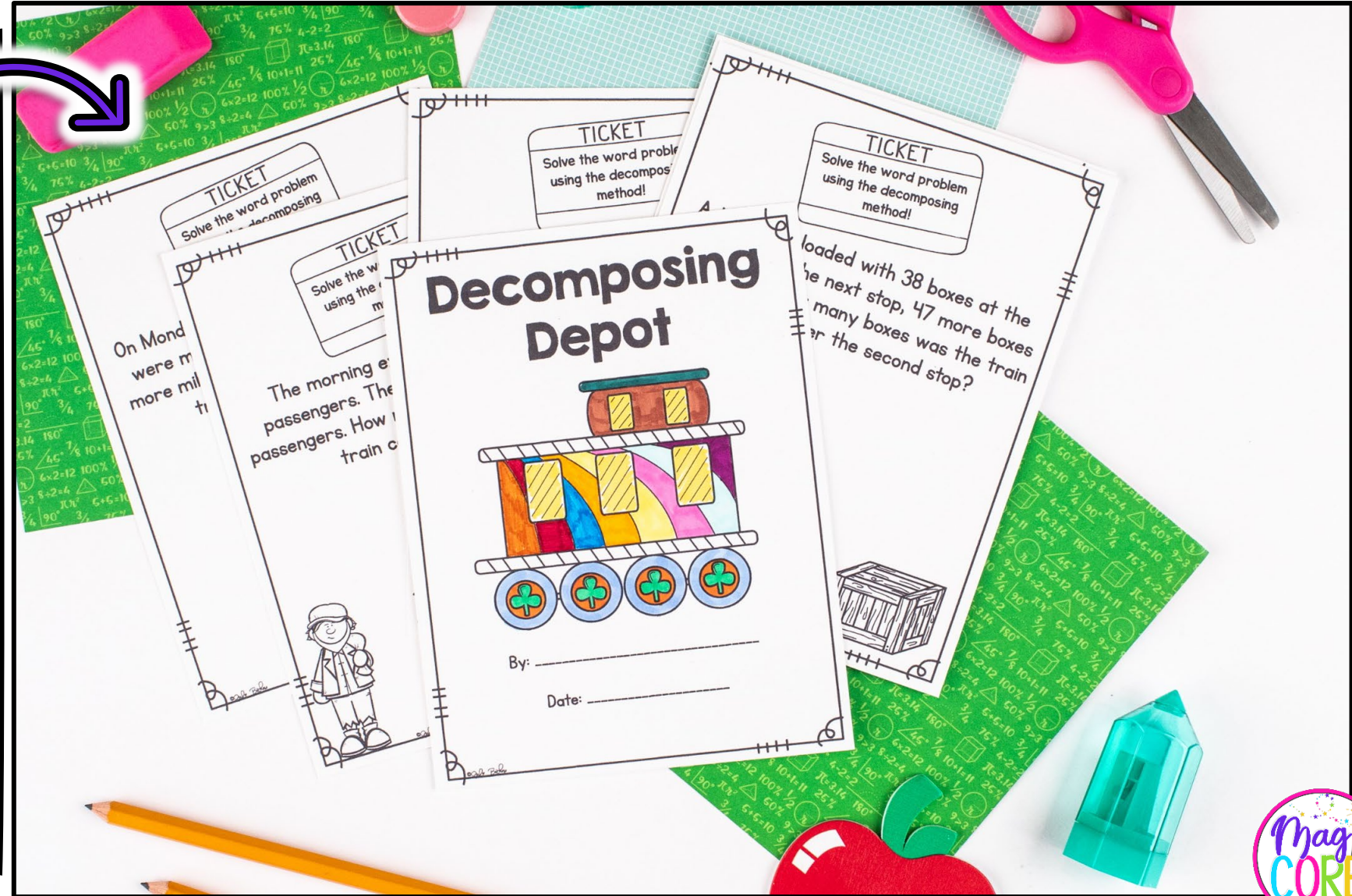
$$\underline{700} + 80 + 8 = \underline{\quad}$$

6. Find the sum!

$$700 + 80 + 8 = \textcircled{788}$$

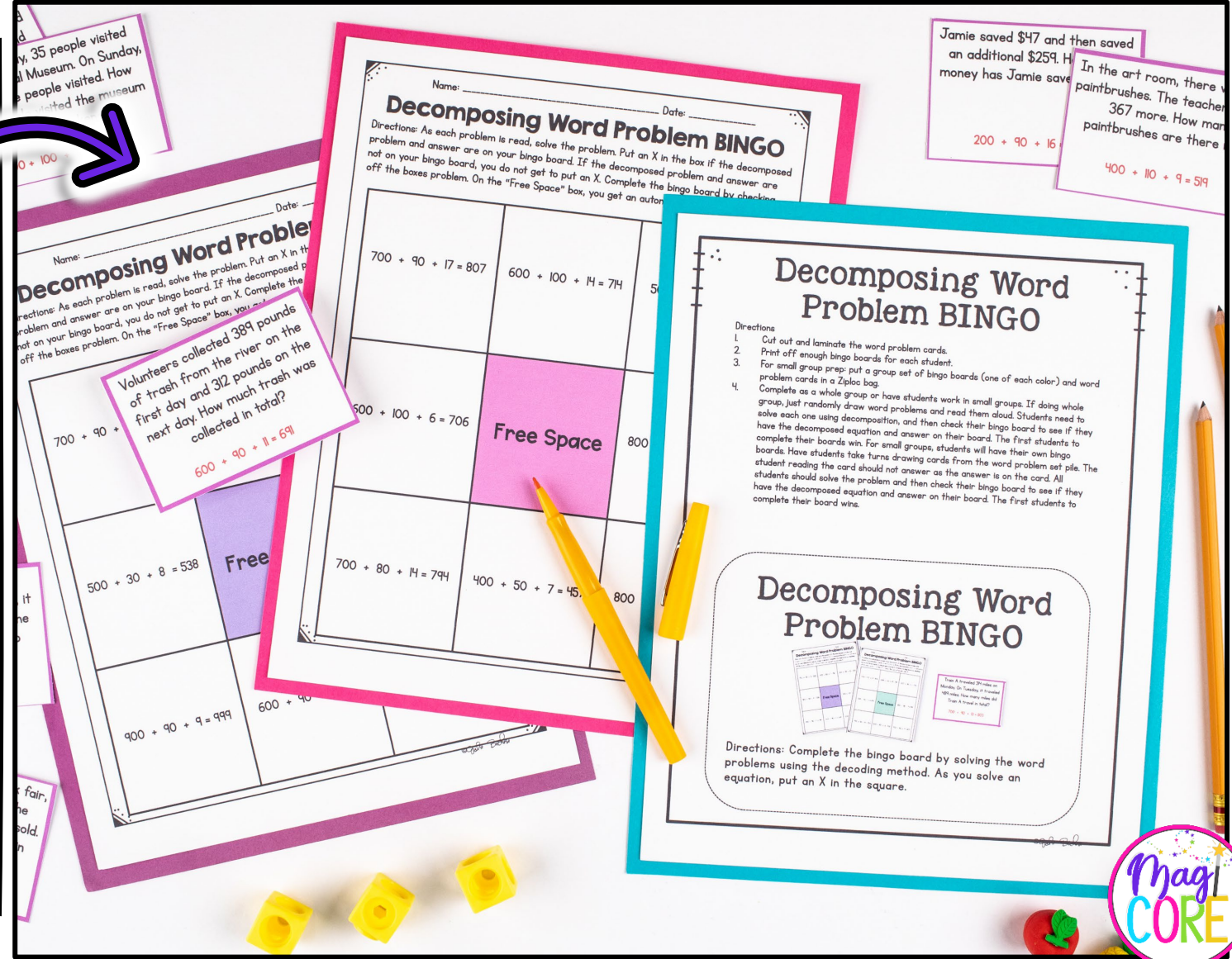
MINI-BOOK

- Mini-Book to teach and break down the skill.
- Perfect for student engagement and fluency.
- Provides visual guidance on decomposing
- A fun way to learn!



ENGAGING CENTER GAME

- Decomposing Word Problem Bingo.
- Master word problem solving skills, while also mastering decomposing from a word problem.
- All games can be utilized and played throughout the year!
- Designed to be played individually, in pairs, or groups.



DIGITAL VERSION

- Google Classroom Friendly!
- Interactive Google Slides for practicing decomposing and addition.
- Students stay engaged while demonstrating mastery online.

A digital worksheet titled "Decomposing to Add" is displayed on a tablet. The title is at the top center. Below it, the directions read: "Directions: Find the sum of each problem by decomposing." There are eight math problems arranged in two columns. Each problem has a small box for the answer and a larger box for showing work. The problems are: 1. $346 + 78 =$, 2. $90 + 807 =$, 3. $678 + 27 =$, 4. $38 + 199 =$, 5. $284 + 30 =$, 6. $953 + 32 =$, 7. $88 + 461 =$, and 8. $75 + 360 =$. The worksheet is decorated with a small cartoon character in the top right corner and a small robot in the bottom left corner. The entire worksheet is framed by a black border with small 'x' marks at the corners.

Decomposing to Add

Directions: Find the sum of each problem by decomposing.

1. $346 + 78 =$

2. $90 + 807 =$

3. $678 + 27 =$

4. $38 + 199 =$

5. $284 + 30 =$

6. $953 + 32 =$

7. $88 + 461 =$

8. $75 + 360 =$

TAKE A PEEK

Adding 2-digit Numbers by Decomposing

Directions: Find the sums of the addends by decomposing the numbers.

1. $56 + 23 = \underline{\hspace{2cm}}$

2. $48 + 44 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 50. + 6 \\ 20 + 3 \\ \hline + = \end{array}$$

3. $28 + 75 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 20 + 8 \\ 70 + 5 \\ \hline + = \end{array}$$

5. $24 + 61 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 20 + 4 \\ 60 + 1 \\ \hline + = \end{array}$$

Decomposing 2-digit Numbers Word Problems

Directions: Solve the word problems using the decomposing method. Make sure to show your work.

Jerome has 93 red stickers and 36 green stickers. How many stickers does Jerome have in all?

2. My horse walked 45 miles on Saturday. He walked another 72 miles on Sunday. How many miles did my horse walk during the weekend?

Decomposing 2-digit Numbers Word Problems

Directions: Solve the word problems using the decomposing method. Make sure to show your work.

1. Sunny the squirrel found 21 red apples under the apple tree. She decided to search for more and found 51 green apples in the bushes. How many apples did Sunny find in total?

2. For Lily's birthday party, her mom bought 32 colorful balloons. Her dad also brought 52 shiny balloons. How many balloons do they have for the party altogether?



3. Max went to the library and borrowed 48 adventure books. He also picked 91 science books. How many books did Max borrow from the library?

4. In the park, 64 small puppies were playing together. Later, 19 more puppies joined the fun. How many puppies were playing in the park in total?

Decomposing to Add

Directions: Find the sums of the addends by decomposing the numbers.

$+ 18 =$

$207 + 18 =$

2-digit Number Decomposing

Directions: Find the sums of the addends by decomposing the numbers.

1. $23 + 72 = \underline{\hspace{2cm}}$

$$\begin{array}{r} ___ + ___ \\ ___ + ___ \\ \hline ___ + ___ = ___ \end{array}$$

2. $84 + 15 = \underline{\hspace{2cm}}$

$$\begin{array}{r} ___ + ___ \\ ___ + ___ \\ \hline ___ + ___ = ___ \end{array}$$

3. $13 + 81 = \underline{\hspace{2cm}}$

$$\begin{array}{r} ___ + ___ \\ ___ + ___ \\ \hline ___ + ___ = ___ \end{array}$$

4. $49 + 25 = \underline{\hspace{2cm}}$

$$\begin{array}{r} ___ + ___ \\ ___ + ___ \\ \hline ___ + ___ = ___ \end{array}$$

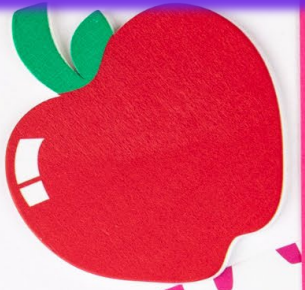
5. $62 + 17 = \underline{\hspace{2cm}}$

$$\begin{array}{r} ___ + ___ \\ ___ + ___ \\ \hline ___ + ___ = ___ \end{array}$$

6. $60 + 29 = \underline{\hspace{2cm}}$

$$\begin{array}{r} ___ + ___ \\ ___ + ___ \\ \hline ___ + ___ = ___ \end{array}$$

AND ANOTHER PEEK



Name: _____ Date: _____

Quiz: Decomposing to Add 3-digit Numbers

Directions: Find the sum of each problem by decomposing.

1. Decompose the following numbers:

$$938 =$$

$$467 =$$

2. Solve each equation by decomposing.

$$364 + 81 =$$

$$590 + 387 =$$

4. Tacara read 267 books during the first quarter and 383 books during the second quarter. How many books did Tacara read during the first two quarters?
5. Trayton has a collection of 482 seashells. Tamia gave Trayton 139 more seashells. How many seashells does Trayton have now?

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Name: _____ Date: _____

Quiz: Decomposing to Add 2 Digit Numbers

Directions: Find the sum of each problem by decomposing.

1. Decompose the following numbers:

$$98 =$$

$$25 =$$

2. Solve each equation by decomposing.

$$14 + 81 =$$

$$59 + 38 =$$

4. Jada had 19 cookies for the bake sale. Kent had 27 cookies for the bake sale. How many cookies do Jada and Kent have in all?
5. Keyana walked 23 miles in the month of June. She walked 29 miles in July. How many miles did Keyana walk in June and July?