Guided Math

Addition and Subtraction

Properties of Addition, Estimating Sums and Differences, Regrouping

3rd Grade

20 days worth of lesson plans

Made By: Saddle Up for 2nd Grade

Lesson Plans

These lesson plans were designed to use this unit for 20 days. They cover associative and commutative properties of addition, addition and subtraction with regrouping, subtracting across zeroes, and estimating the sums and differences. They are to be used as a guide when planning instruction. Depending on your curriculum pacing guide, you may have more or less days to teach this concept.

Each day includes a warm up activity (5 minutes), whole group lesson (10-20 minutes), independent practice activity (10 minutes) and a small group activity (15 minutes). Times can be adjusted based on your schedule. You can read more about how to set up your math block on my blog.

3-Digit Addition No Regrouping **LESSON PLAN: DAY 1**

OBJECTIVES	VOCABULARY	MATERIALS
• Students will add 3-digit numbers using a variety of mental strategies and algorithms based on knowledge of place value. • Students will solve mathematical problems up to 1,000.	• Addition • Sum • Addend • Commutative Property • Equal	• Daily Word Problem • Anchor Chart and Student Chart • Commutative Property Work Mat • Roll It, Add It, Flip It and Dice • Drop, Add, & Flip • Craft Poms • Dice

WARM UP (5 MINUTES OR LESS)

Beat the Teacher: Put students into groups of 3-4. Each group will need one white board or one piece of paper. Write ___+___= 16 on the board. Groups will have one minute to write as many math facts that equal 16 on their whiteboard or paper. Teacher will also write facts to the sum of 16 on his/her own piece of paper. I tell groups to whisper because if I or any other group hears it, I or they can steal it! At the end of a minute, see if any groups were able to beat the teacher.

WHOLE GROUP LESSON (10-20 MINUTES)

Today you will be introducing commutative property by creating a properties of addition anchor chart. **Today you'll be filling out the commutative property portion of the chart only** (they'll more than likely be familiar with the term turn around facts). Commutative property is when the addends in a problem are switched but the sum stays the same. Write 22 + 78 and 78 + 22 on your whiteboard or anchor chart paper. (you can also use the printable fact cards provided). Ask: What do you notice is the same about these two expressions? The addends are the same but just in different places. Ask: Do you think both problems have the same sum? Yes! Let's solve to check our answer. Were we right? Now, create the commutative property portion of the anchor chart. As you are creating the whole group chart together, students will create a matching one in their math journal. Repeat the first activity with 49 + 16, 236 + 55, and 511 + 490.

Complete daily word problem in student journal.

INDEPENDENT PRACTICE (10 MINUTES)

Each student will need a copy of Roll it, Add it, Flip it, and a die. Have them roll their die 3 times to create a 3-digit number. Roll another 3 times to create another 3-digit number. Then they will solve for the sum. Then have them flip the addends, solve again to check their answer.

SMALL GROUP LESSON (15 MINUTES PER GROUP)

Each student will need a copy of the Drop, Add, & Flip Number page, an answer page, and a pom pom ball. Have them hold up their pom and carefully drop it onto the number board to create a 3-digit number. Repeat the process to create a second number. They'll write the numbers created in the left box on their answer page and then solve for the sum. Then, they need to flip the addends and solve again in the box to the right. The sums should be the same! This activity can also be done by adding three and four 3-digit numbers. Repeat as time allows.

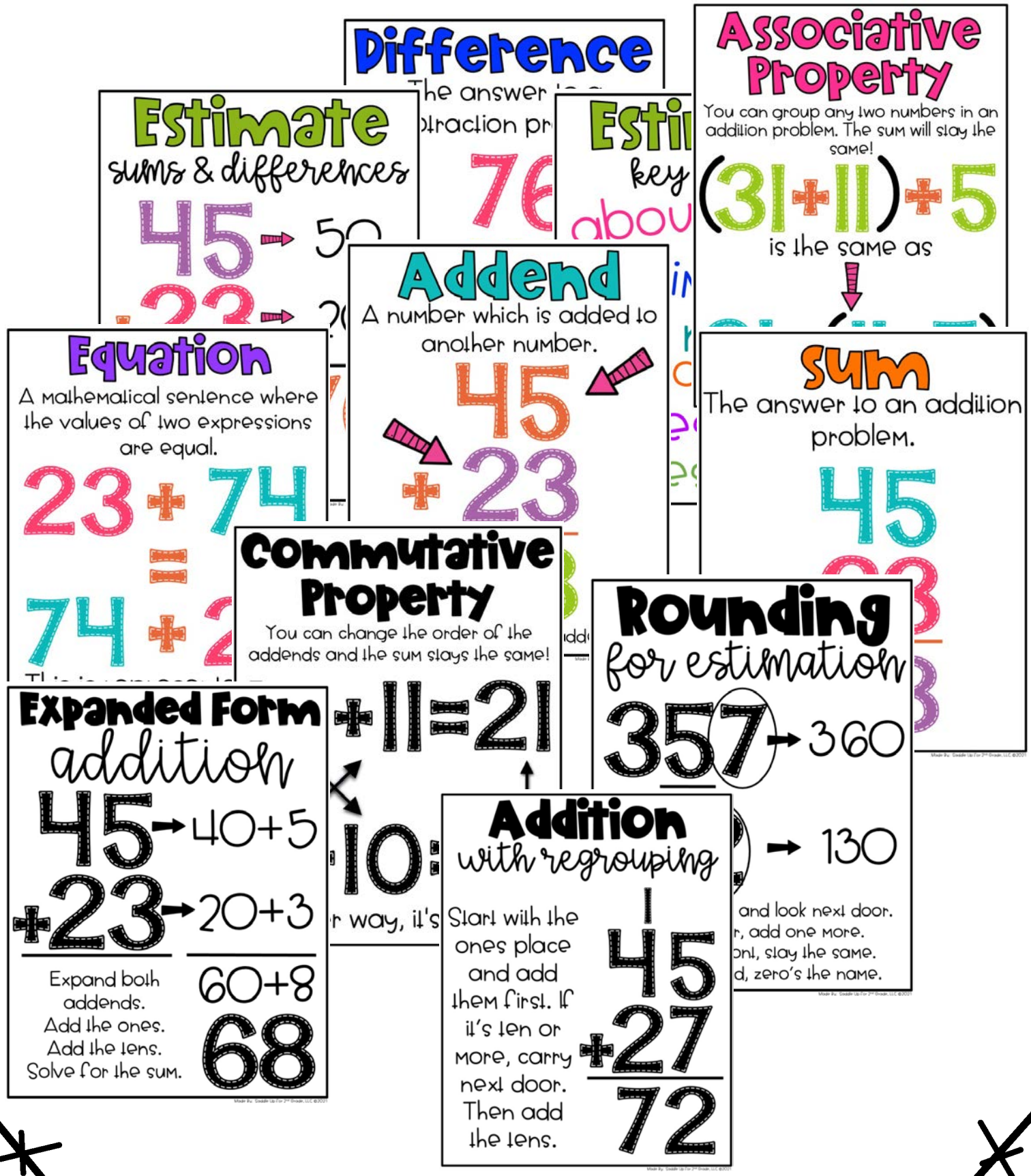
Made By: Saddle Up for 2nd Grade, LLC ©2021

These lesson plans are filled with hands on engagement and interactive notebook activities. Games and task cards are also included and can be used all year long. You will not find many worksheets in this unit.

Made By: Saddle Up for 2nd Grade, LLC ©2021

Vocabulary Posters

Color and Black and White Versions



Made By: Saddle Up for 2nd Grade, LLC ©2021

Pre-Assessments

These pre-assessments are absolutely optional. You will not see them included in the lesson plans. They are to be given prior to starting your next unit. Explain to your students that it is OK for them to not know the answers or how to do something. Here are some benefits for using pre-assessments in your class.

- What do your students already know?
- What do you need to spend most of your time focusing on when teaching and what can you briefly review and move on?

Mark your students results on the data graphing sheet. If they already understand a concept, place an x or checkmark in the boxes.

- Use this data to form your small groups.
- Use this data to plan your differentiated small group lessons.

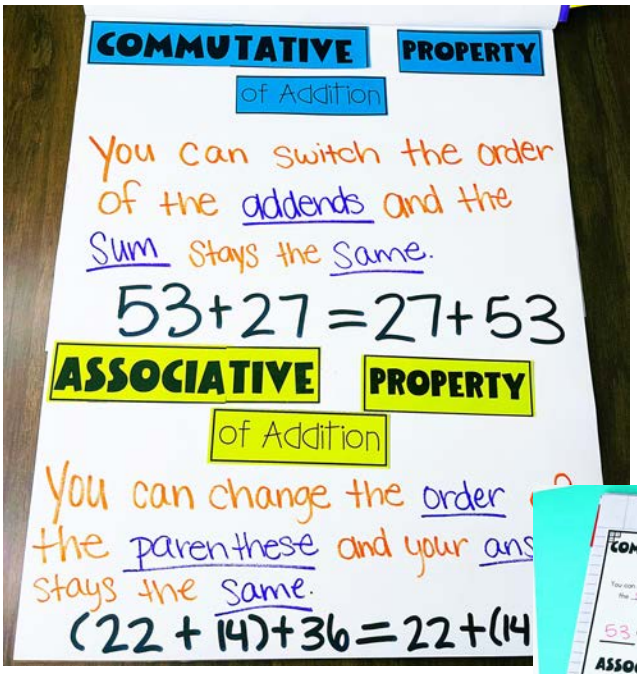
There is also a post-assessment data sheet included after the assessment at the end of the unit.

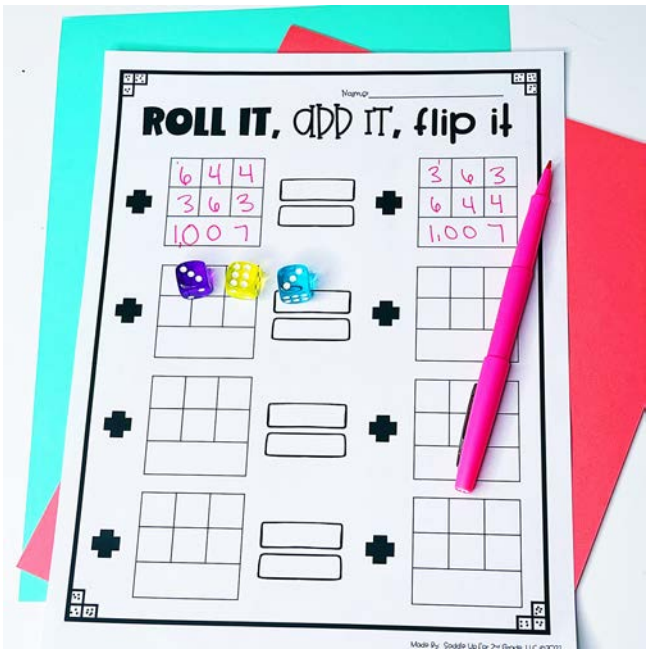
Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 1

Whole Group

Introduce the commutative property of addition by creating an anchor chart.





Independent Practice

Students will create 3-digit numbers with dice to use while practicing the commutative property.

Small Group

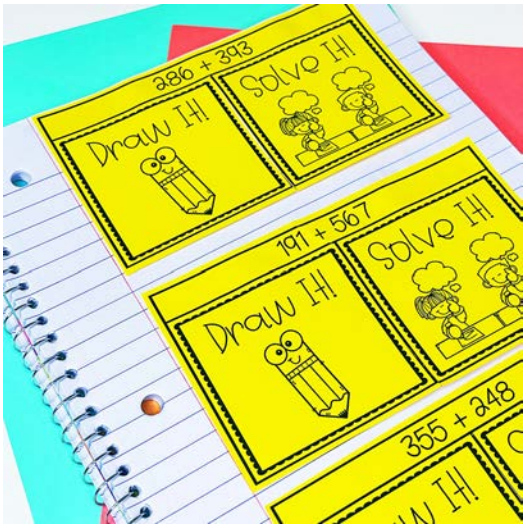
Using pom poms, students will play Drop, Add, & Flip! After building a 3-digit addition problem, they'll solve for the sum. Then practice commutative property to check their answer.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DJY 2

Whole Group

Using a place value mat, cheese crackers, pretzel sticks, and skittles, students will use number cards to practice adding 3-digit numbers. You may also choose to use base ten blocks in place of food. They will practice regrouping the ones and tens place with these problems.



Independent Practice

Students will practice 3-digit addition with regrouping using the Draw It and Solve It journal activity.

Small Group

Using pom poms, students will play Drop, Add, & Flip! After building a 3-digit addition problem, they'll solve for the sum. Then practice commutative property to check their answer.

Made By: Saddle Up for 2nd Grade, LLC ©2021

206 + 446 =

629 + 145 =

642 + 339 =

385 + 352 =

506 + 139 =

447 + 355 =

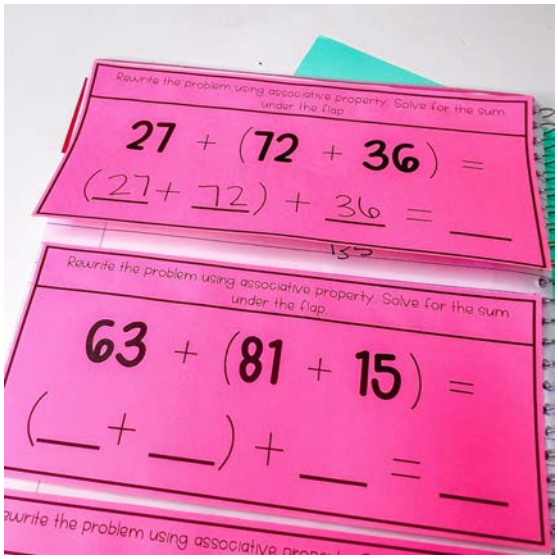
289 + 122 =

374 + 207 =

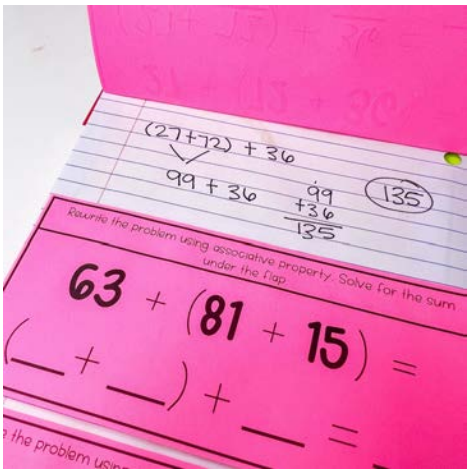
DAY 3

Whole Group

Students will practice the associative property of addition using number cards.



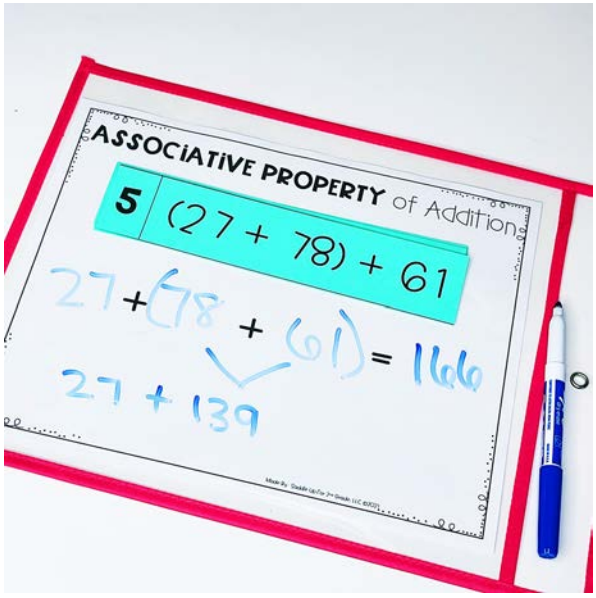
Independent Practice



Students will practice addition using the associative property using flip flaps in their interactive notebook.

Small Group

Using a place value mat students will use number cards to practice the associative property of addition. They will practice rearranging the addends and parenthesis with these problems.

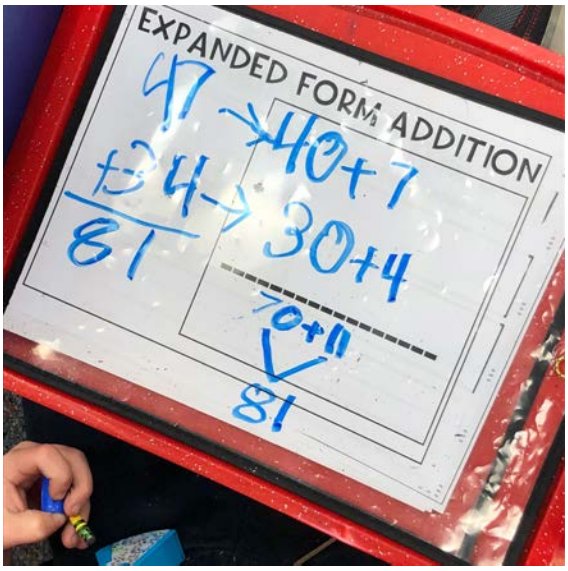


Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 4

Whole Group

Students will practice multiple problems using the Expanded Form of Addition mat.

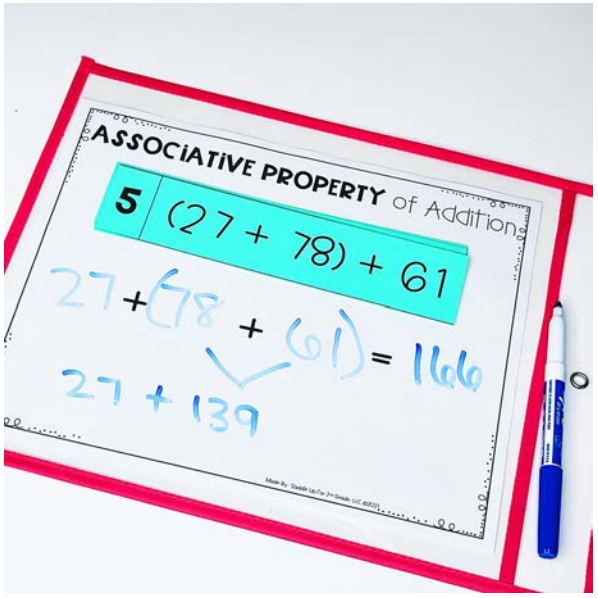


Independent Practice

Practice 2-digit addition with expanded form by playing Spin & Add. Use base ten blocks and a place value mat to practice expanded form addition.

Small Group

Using a place value mat students will use number cards to practice the associative property of addition. They will practice rearranging the addends and parenthesis with these problems.



Made By: Saddle Up for 2nd Grade, LLC ©2021

DIY 5

Whole Group & Independent Practice

Students will practice 3-digit addition and problem solving by playing Snowball Addition with task cards.

Small Group

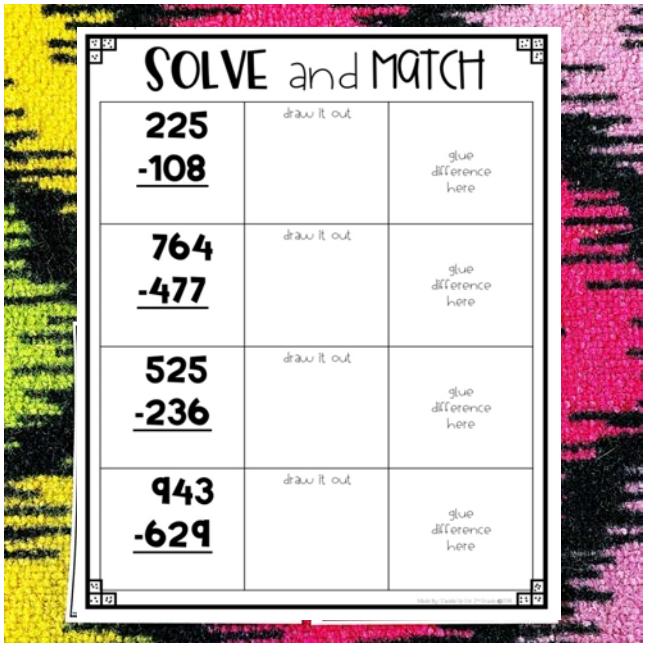
Students will sort associative, commutative, and expanded addition strategies in their interactive notebooks.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DIY 6

Whole Group

Reintroduce subtraction with regrouping by creating the strategy anchor chart and completing the Base Ten section. Using a place value mat, square tiles, pipe cleaners, and pom poms, students will use number cards to practice subtracting 3-digit numbers. They will practice regrouping the ones and tens place with these problems.



Independent Practice

Students will practice 3-digit subtraction by completing the Solve and Match activity.

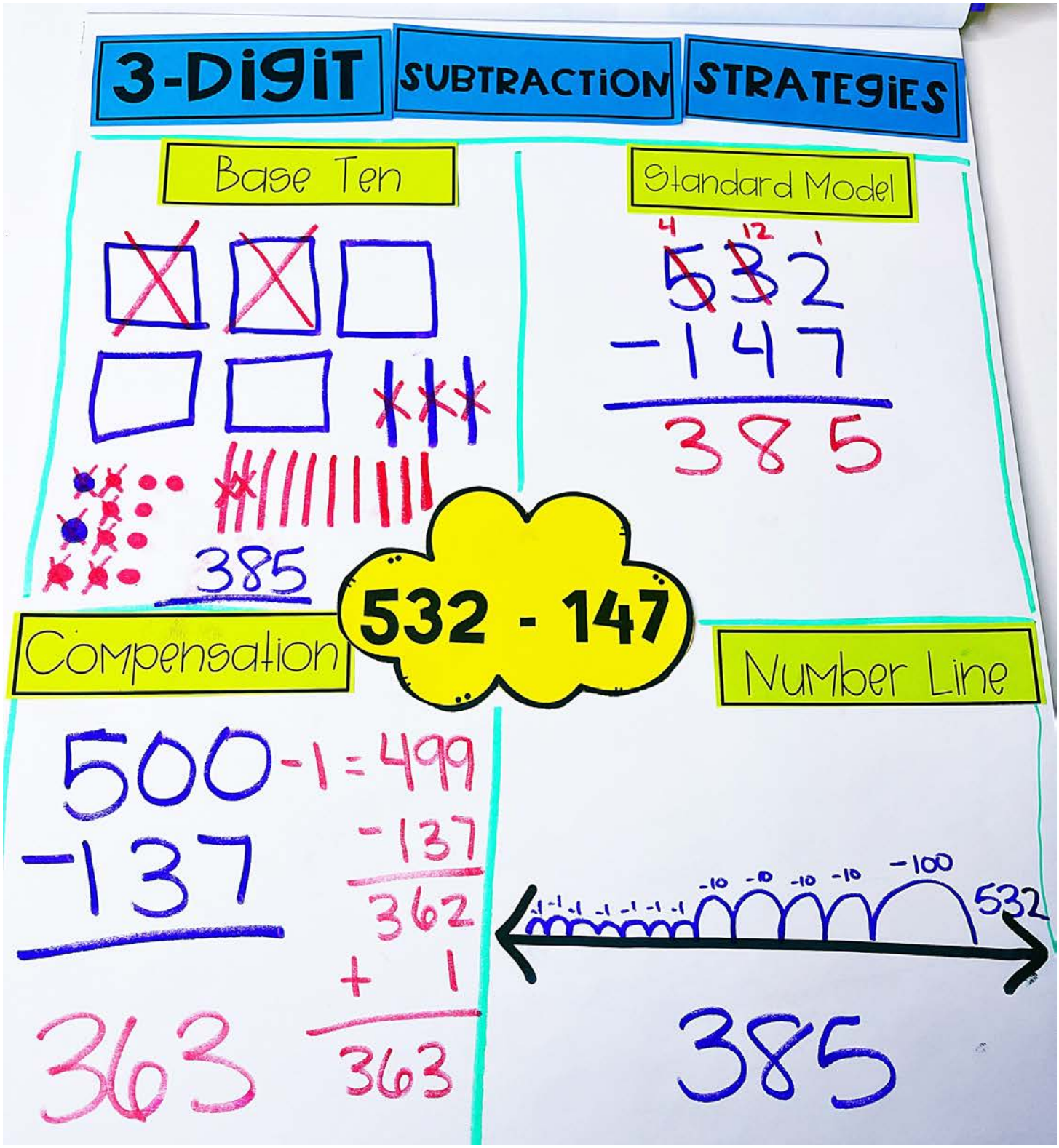
Small Group

Students will sort associative, commutative, and expanded addition strategies in their interactive notebooks.

Made By: Saddle Up for 2nd Grade, LLC ©2021

SUBTRACTION ANCHOR CHART

This anchor chart will be completed over the course of a week. A different section will be discussed and filled out each day.

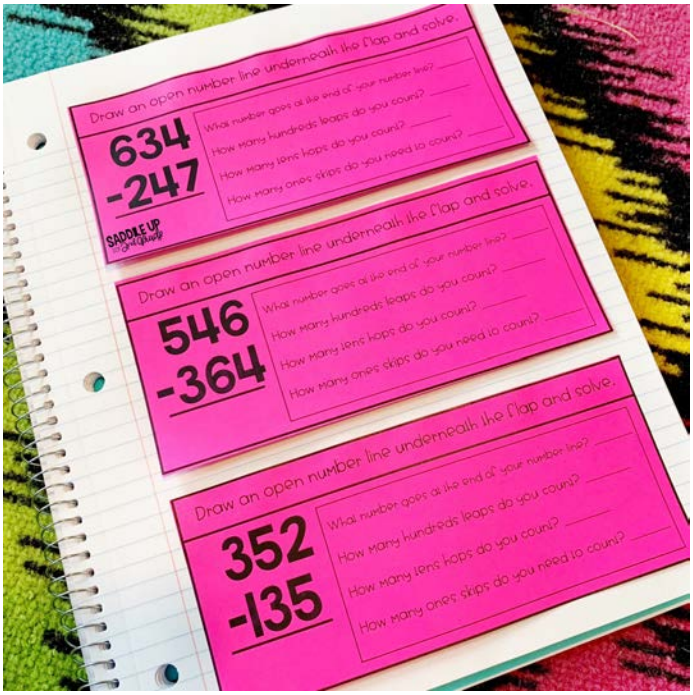


Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 7

Whole Group

Complete the number line strategy section of the anchor chart. Using Subtraction on a Number Line Mat , students will practice this strategy with 3-digit numbers.



Independent Practice

Students will practice the open number line strategy with the Subtracting on a Number Line Journal Activity.

Small Group

Students will practice subtraction across zeros with 3-digit numbers. They'll work through problems in the Zapping those Zeros booklet to practice this strategy.

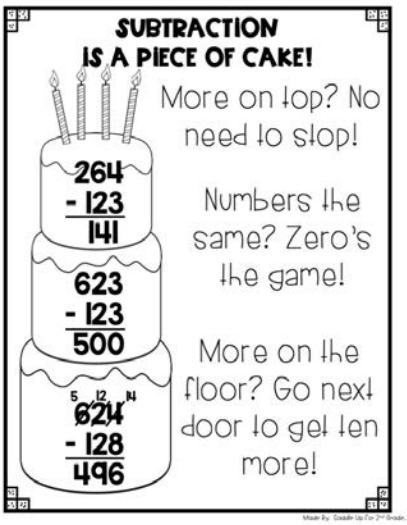
Made By: Saddle Up for 2nd Grade, LLC ©2021

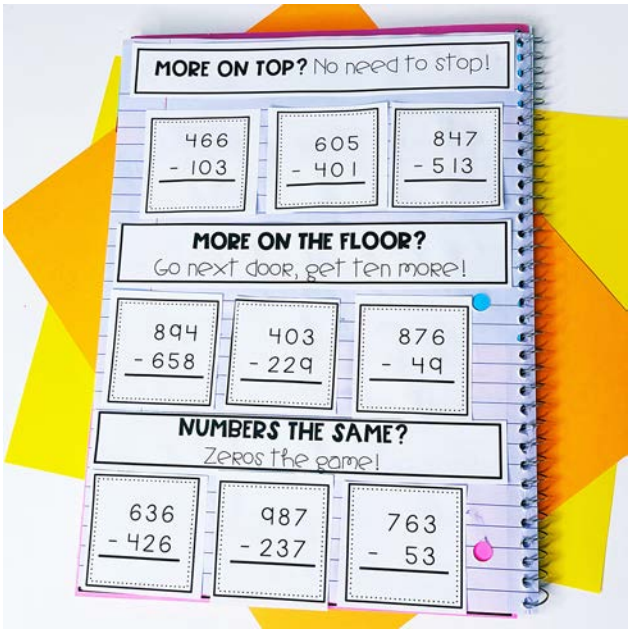
DIY 8

Whole Group

Complete the standard model strategy section of the anchor chart. Students will complete this portion of their chart in their journal.

Directions: Cut around the box. Glue into your math journal.
Top cake: Color the 4 yellow.
Middle layer: Color the 3's blue.
Bottom layer: Color 8 green.





Independent Practice

Students will practice the standard model strategy by completing the Subtraction Journal Sort activity.

Small Group

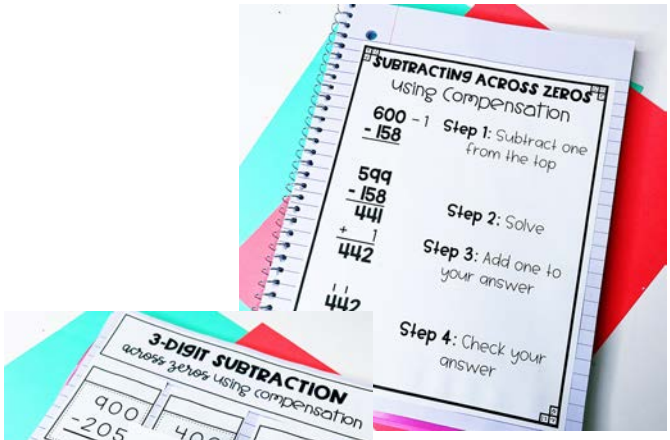
Students will practice subtraction across zeros with 3-digit numbers. They'll work through problems in the Zapping those Zeros booklet to practice this strategy.

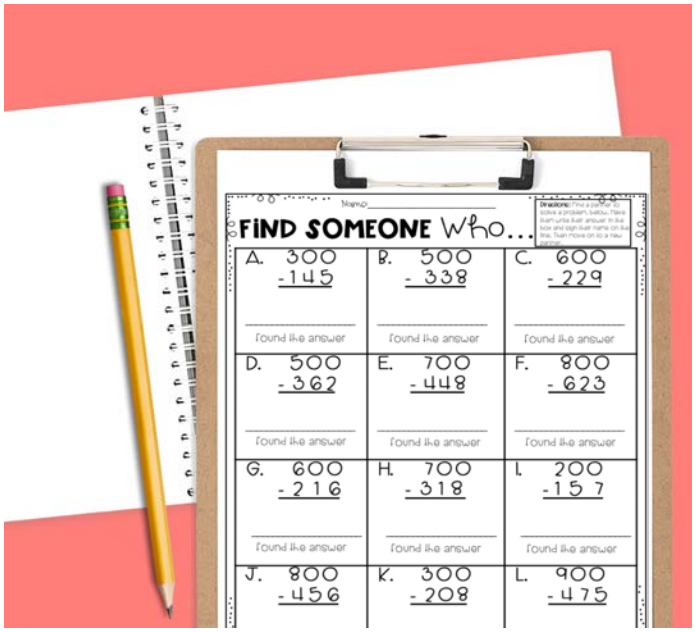
Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 9

Whole Group

Today they will practice the compensation strategy for subtracting across zeros. Students will subtract one from the top and add one to the bottom when subtracting across zeros with this journal activity.





Independent Practice

Students will review subtracting across zeros by playing Find Someone Who. They can solve their problems by using any strategy they've learned.

Small Group

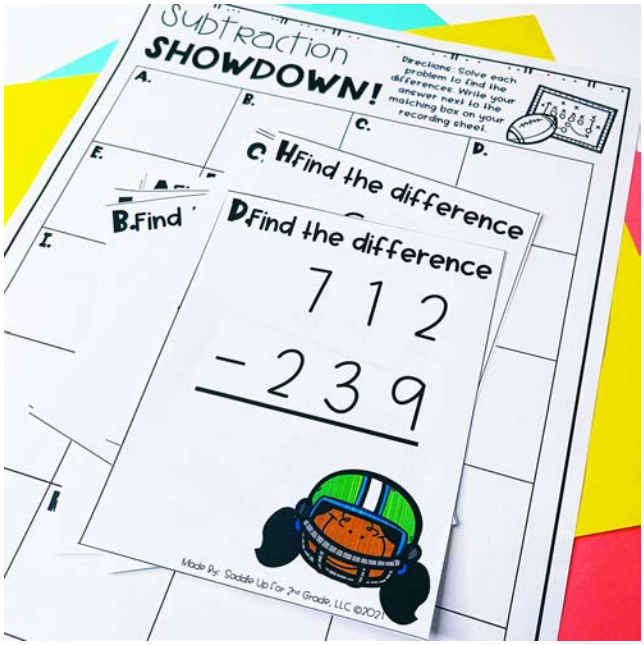
Students will practice subtraction word problems by playing BINGO!

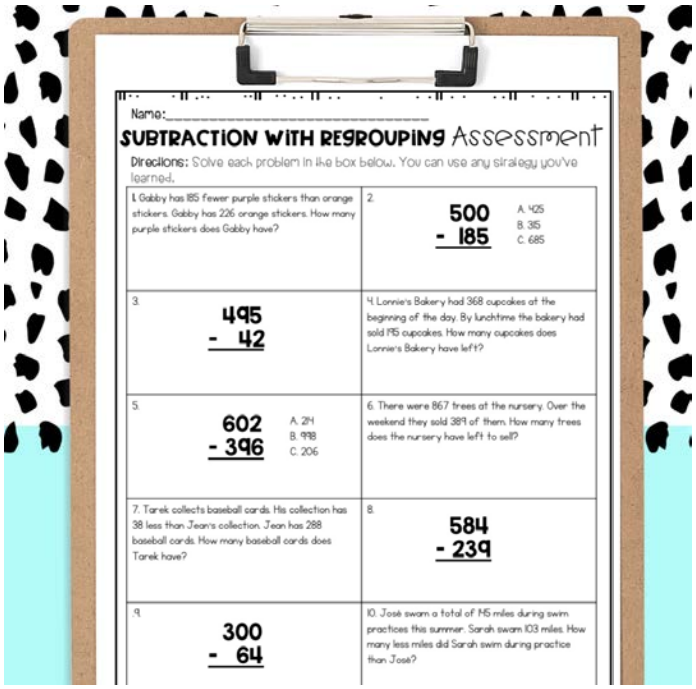
Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 10

Whole Group

Students will review 3-Digit subtraction by playing iSpy using task cards.





Independent Practice

Students will complete an addition and subtraction assessment that covers what they have learned during Days 1 - 9.

Small Group

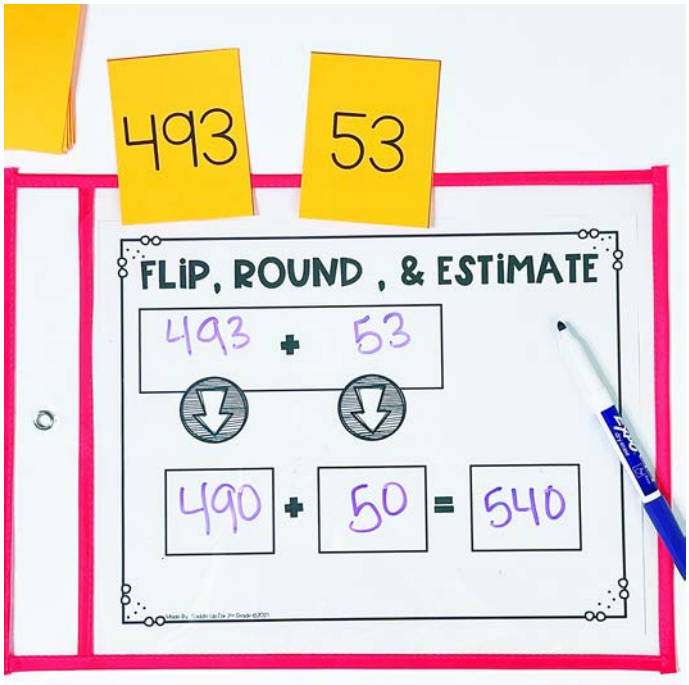
Students will practice subtraction word problems by playing BINGO!

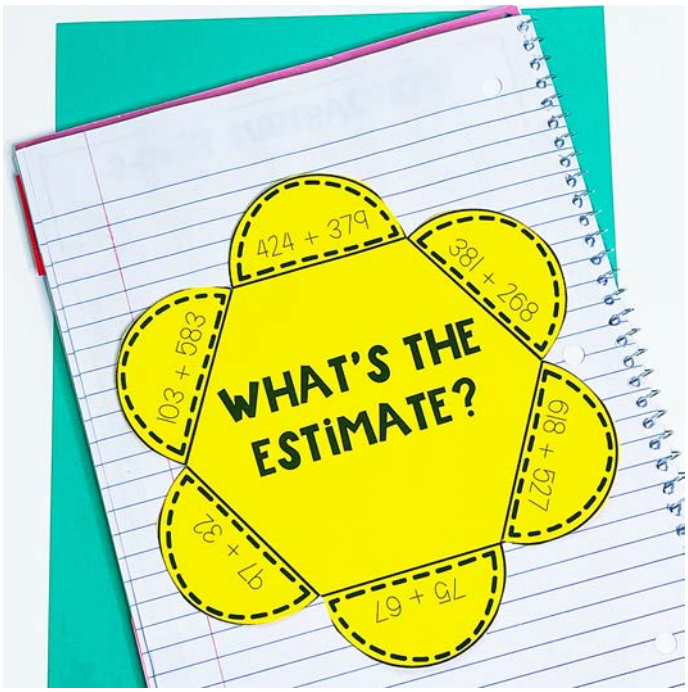
Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 11

Whole Group

Reintroduce estimation by playing Flip, Round, and Estimate.



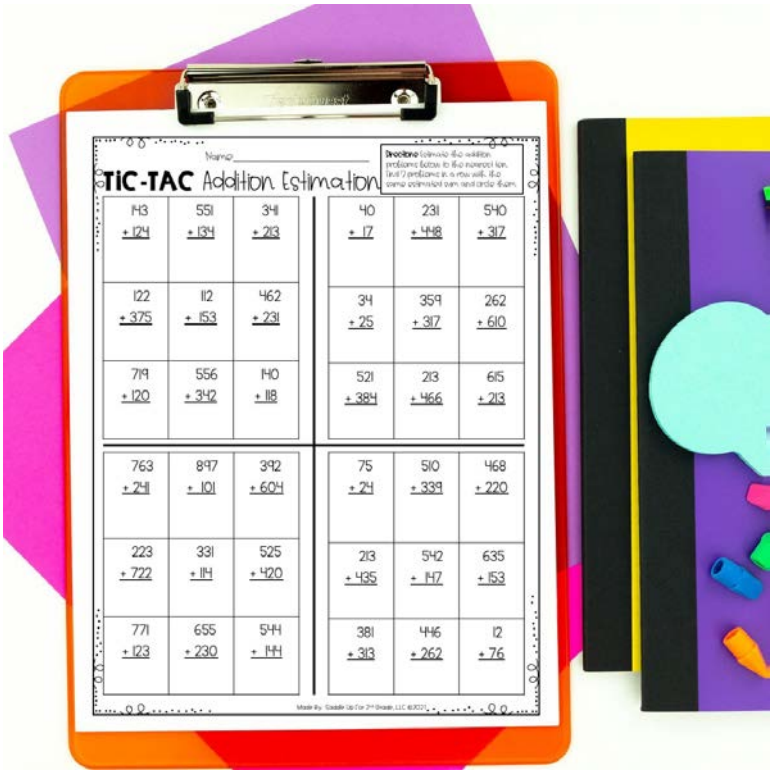


Independent Practice

Students will complete, "What's the Estimate?" in their math journal.

Small Group

Students will play Tic Tac Addition Estimation

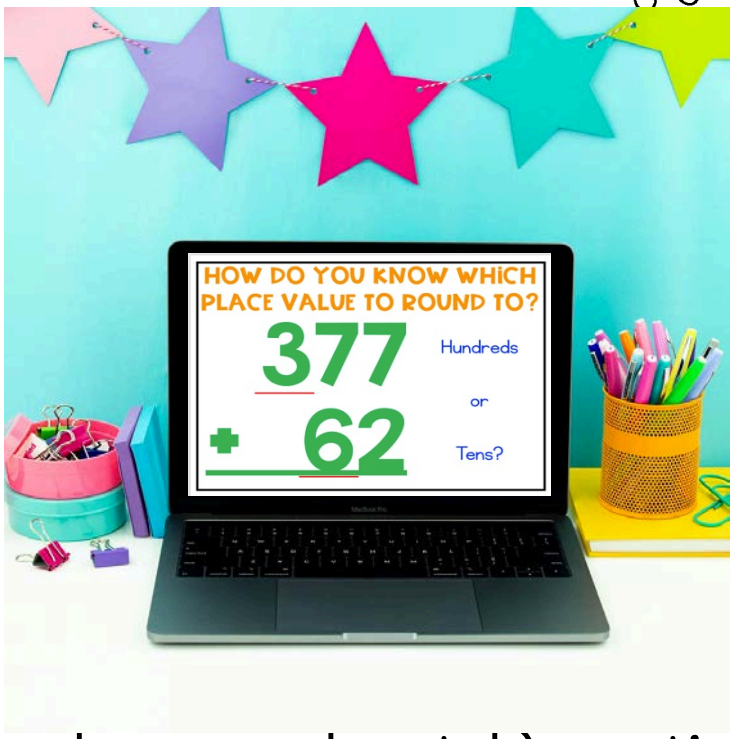


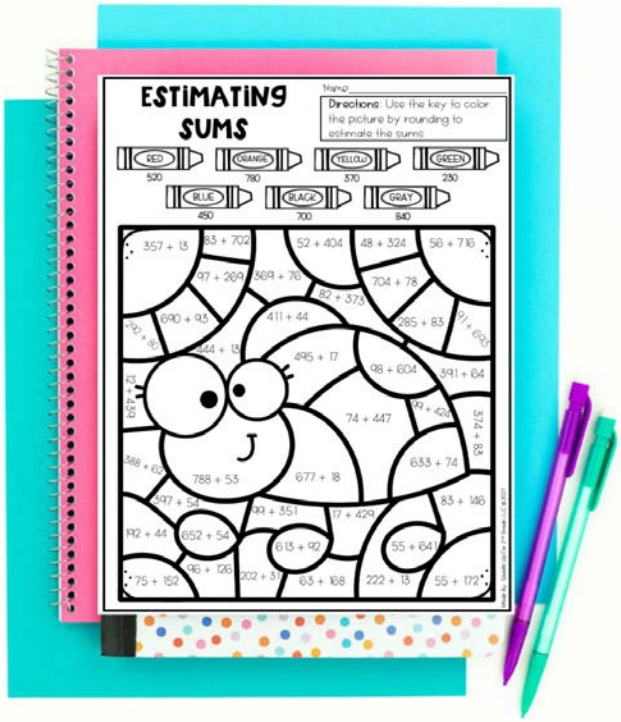
Made By: Saddle Up for 2nd Grade, LLC ©2021

DIY 12

Whole Group

Students will estimate sums on a work mat that goes along with a PowerPoint.



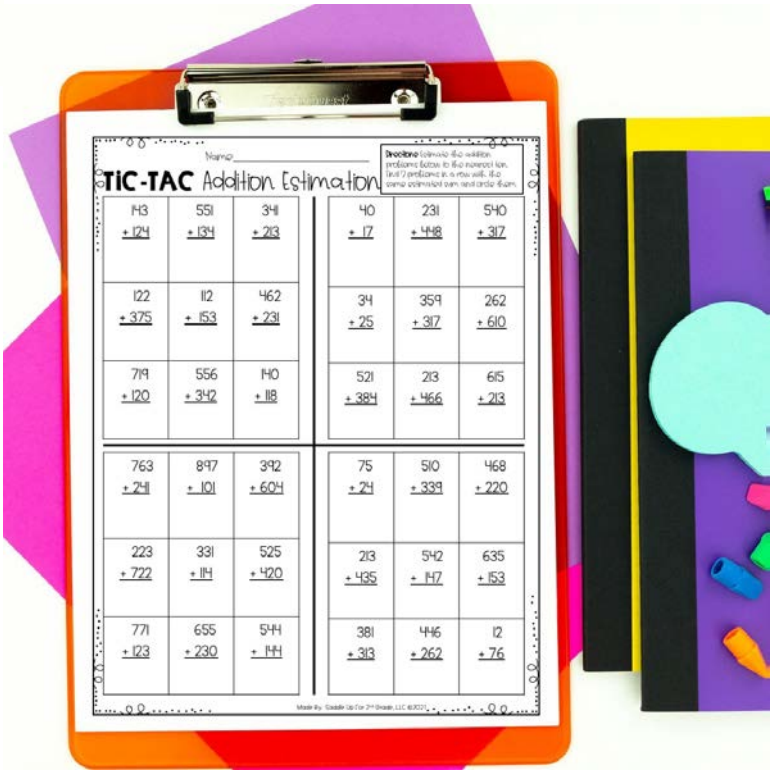


Independent Practice

Students will practice estimation with an Estimation Color by Code activity.

Small Group

Students will play Tic Tac Addition Estimation

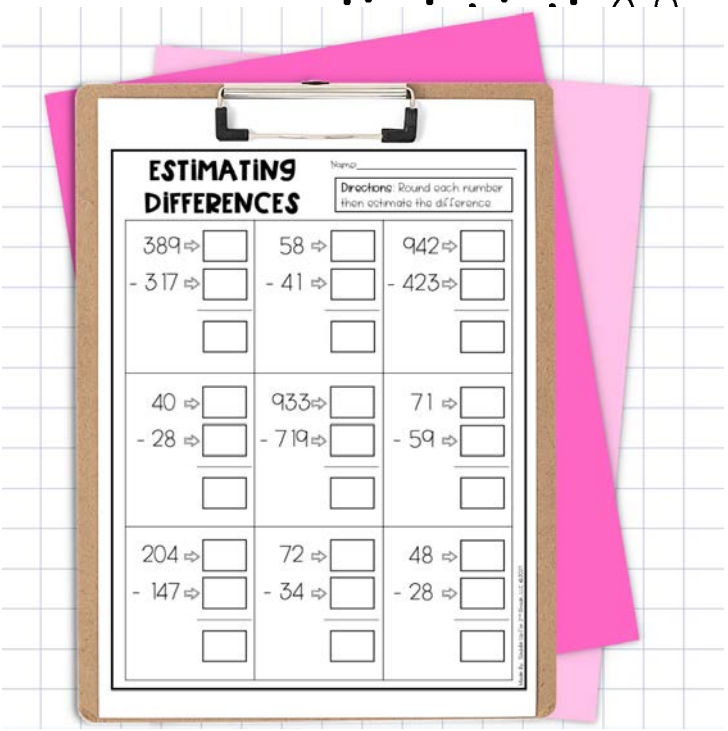


Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 13

Whole Group

Students will estimate 2-digit and 3-digit differences.



Independent Practice

Students will estimate differences by playing Ring Around & Estimate.

Small Group

Spin, Round, & Estimate. Students will round minuends and subtrahends then estimate the difference.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 14

Whole Group

Students will practice estimating differences by doing a pocket chart sort.

Independent Practice

Students will practice estimating differences by playing Connect Four, a partner game.

Small Group

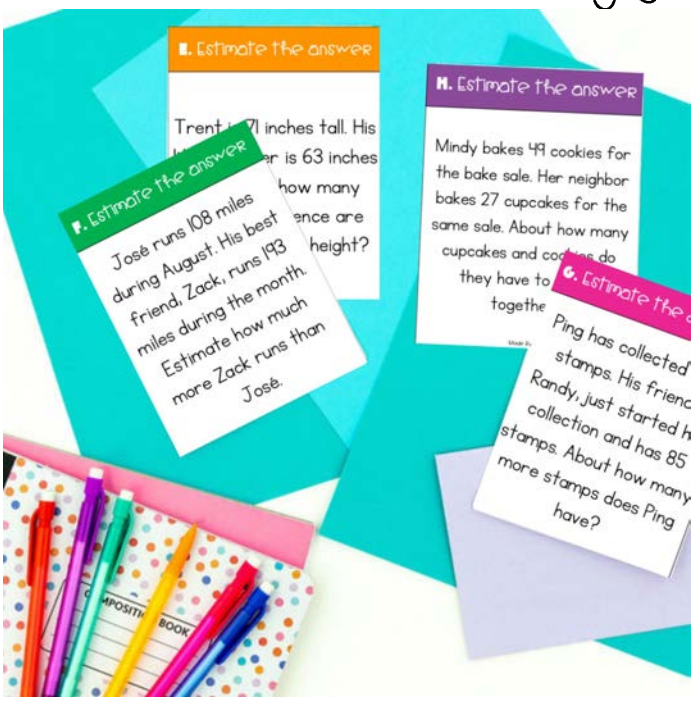
Spin, Round, & Estimate. Students will round minuends and subtrahends then estimate the difference.

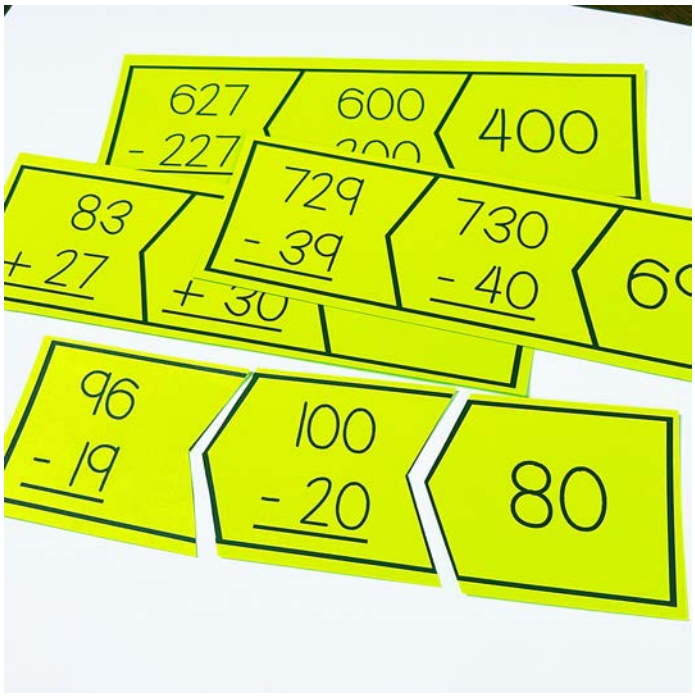
Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 15

Whole Group

Students will practice estimation of sums and differences in word problems by doing a Scoot with task cards.





Independent Practice

Students will practice estimating sums and differences with puzzles.

Small Group

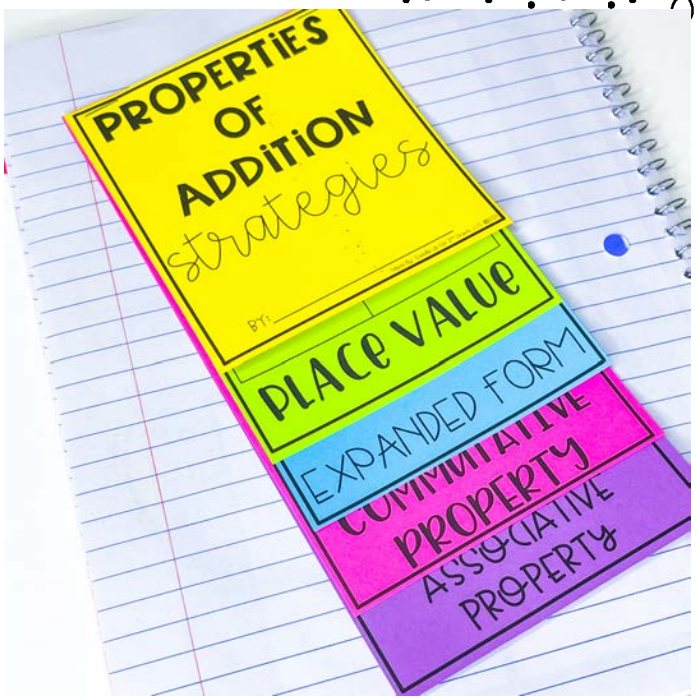
Students will complete the Estimation Flipbook.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 16

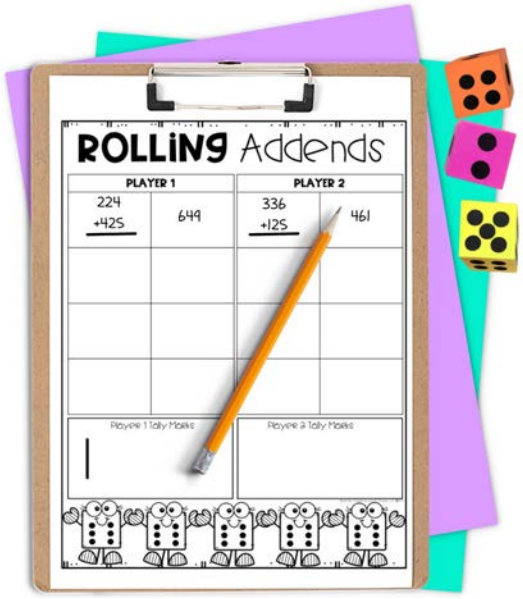
Whole Group

Students will complete a Properties of Addition Strategies booklet.



Independent Practice

Students will play Rolling Addends to practice multi-digit addition.



Small Group

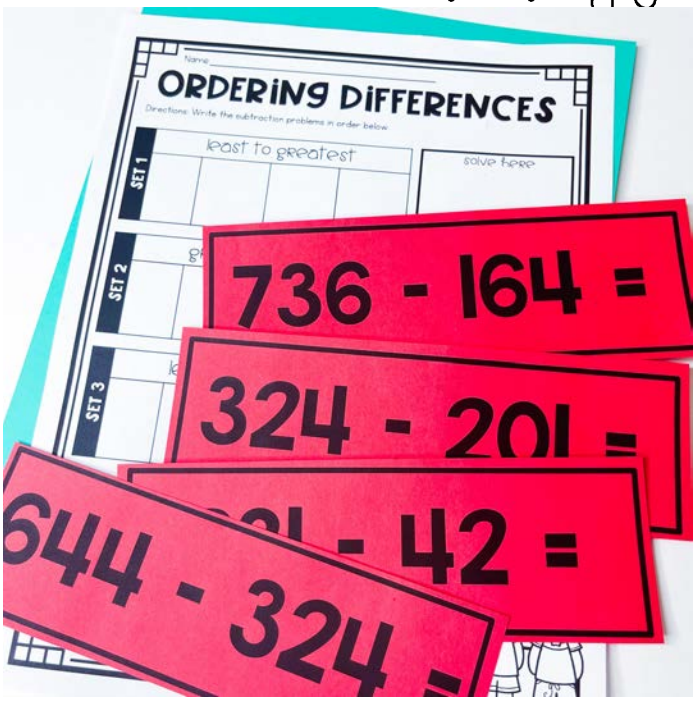
Students will complete the Estimation Flipbook.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 17

Whole Group

Students will practice multi-digit subtraction by solving problems and ordering differences.



Independent Practice

Students will complete a journal activity sorting differences greater than 500 and less than 500 into pockets.

Small Group

Using dice, students will roll to see what column they'll need to solve the addition or subtraction problem in. Keep rolling until the entire board has been completed.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 18

Whole Group/Independent Practice

Students will practice estimating sums with a Let's Go Shopping booklet.

Small Group

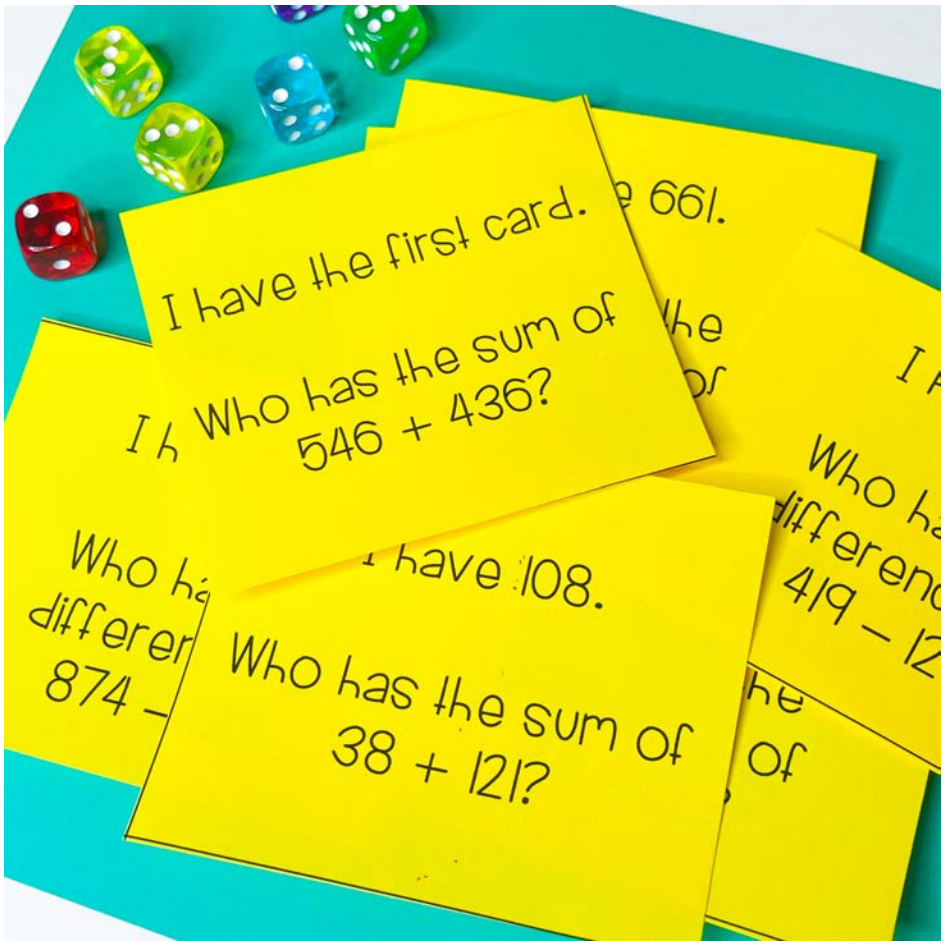
Using dice, students will roll to see what column they'll need to solve the addition or subtraction problem in. Keep rolling until the entire board has been completed.

Made By: Saddle Up for 2nd Grade, LLC ©2021

DAY 19

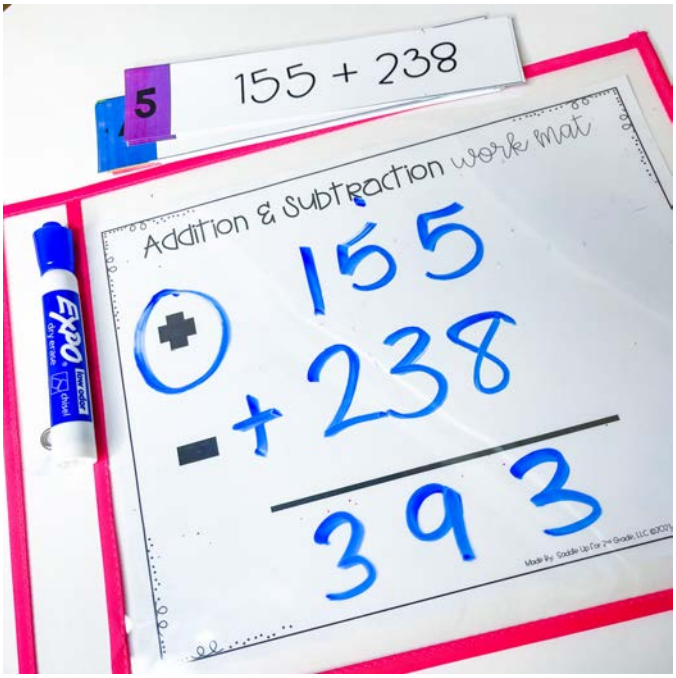
Whole Group/Independent Practice

Students will review multi-digit addition and subtraction by playing I Have Who Has?



Small Group

Students will use a work mat and task cards to practice multi-digit addition and subtraction.

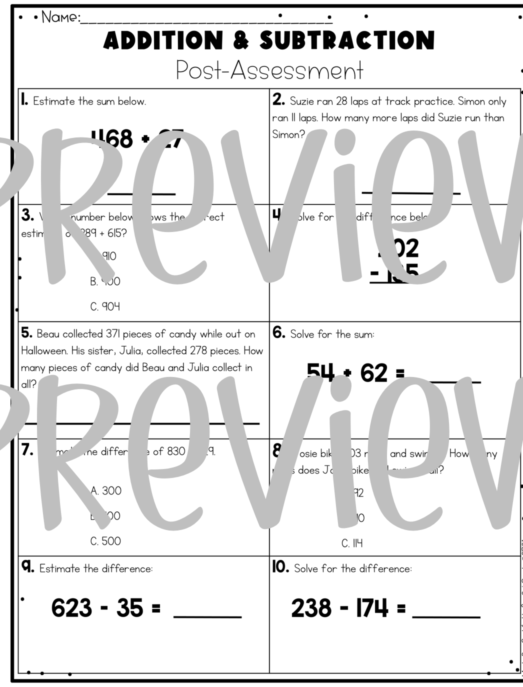


Made By: Saddle Up for 2nd Grade, LLC ©2021

Day 20

Whole Group

Students will complete the addition and subtraction post-assessment.


Name:

ADDITION & SUBTRACTION

Post-Assessment

1. Estimate the sum below.	2. Suzie ran 28 laps at track practice. Simon only ran 11 laps. How many more laps did Suzie run than Simon?
3. [illegible] 289 + 615? A. 910 B. 900 C. 904	4. [illegible]
5. Beau collected 371 pieces of candy while out on Halloween. His sister, Julia, collected 278 pieces. How many pieces of candy did Beau and Julia collect in all?	6. Solve for the sum: 54 + 62 = ____
7. [illegible] of 830 [illegible] A. 300 B. [illegible] C. 500	8. [illegible] C. 114
9. Estimate the difference: 623 - 35 = ____	10. Solve for the difference: 238 - 174 = ____

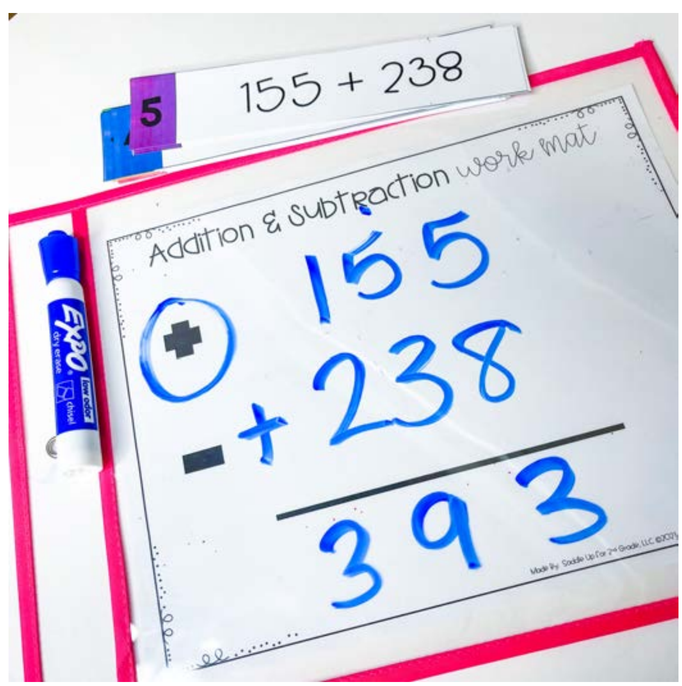
PREVIEW
PREVIEW

Independent Practice

Students will create a Fishing for Sums and Differences craft.

Small Group

Students will use a work mat and task cards to practice multi-digit addition and subtraction.



HIGHER ORDER THINKING QUESTIONS

These H.O.T. tasks are to be used to guide students and get them thinking. These tasks are both challenging and fun. There are multiple types of each problem. Some include a challenge question that can be used to allow students to challenge themselves a little further. These tasks can be used during a whole group warm up, math talk time, small groups, or as exit tickets. I love to see the discussions that occur when my students walk me through their process. They show their peers new ways of thinking that help them in later tasks. They also impress me over and over again!

Made By: Saddle Up for 2nd Grade, LLC ©2021