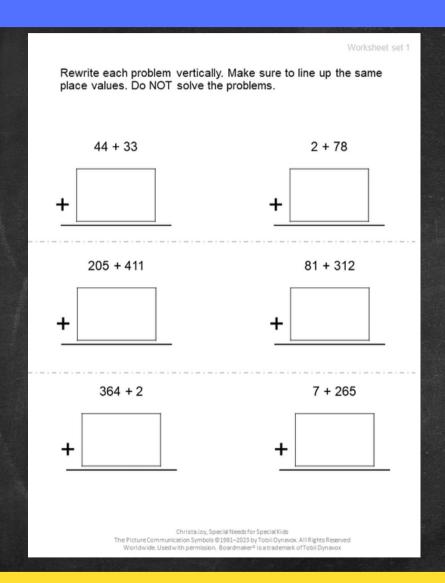
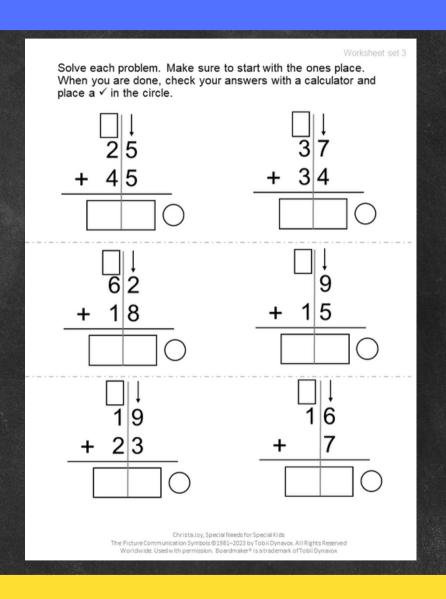
DOUBLE DIGIT ADDITION

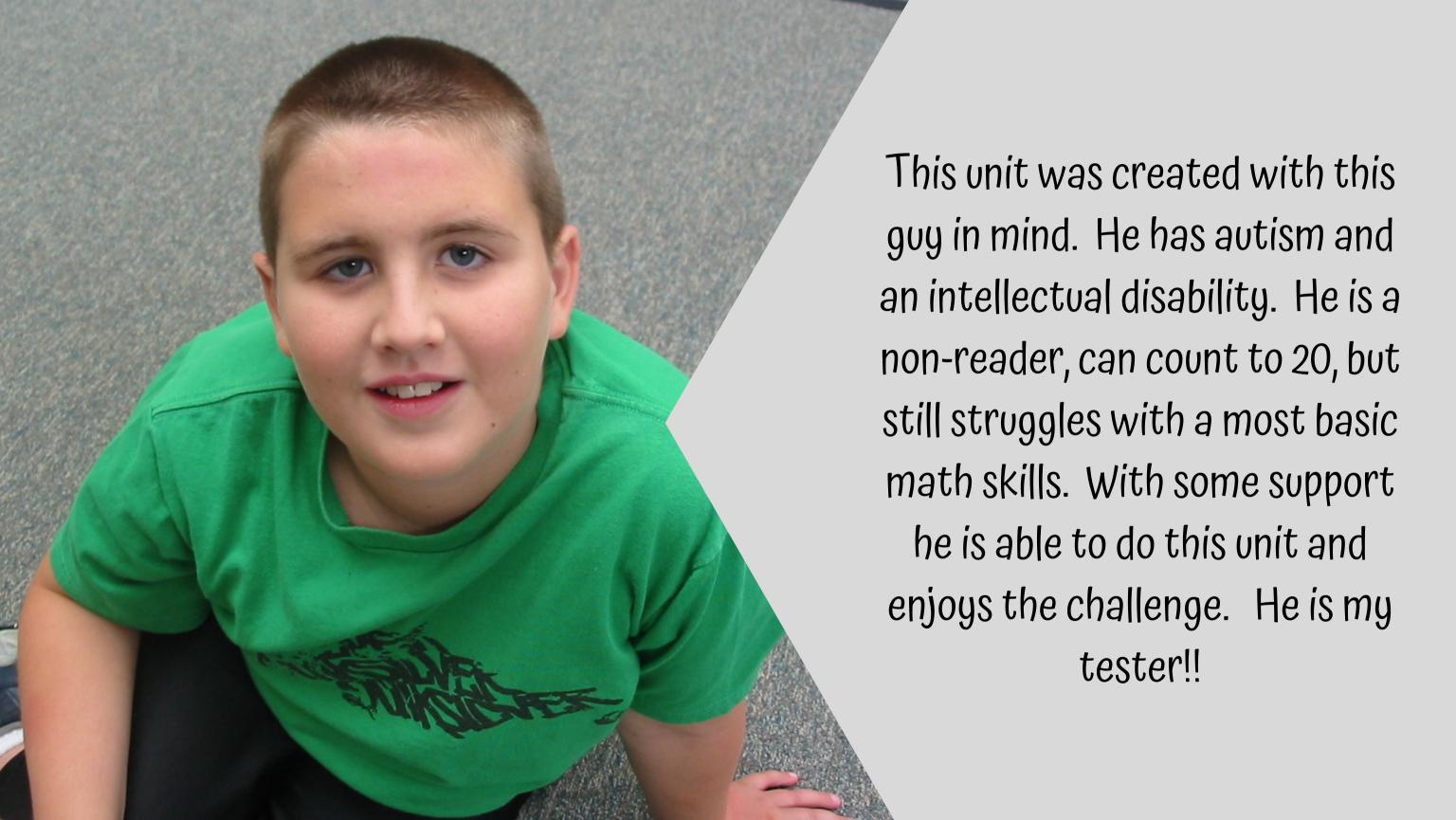


with and without regrouping





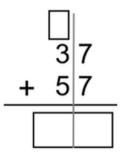
INCLUDES GOOGLE SLIDES





Double Digit Addition Unit

By
Christa Joy
Special Needs for Special Kids



Christa Joy, Special Needs for Special Kids

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Also included in this resource as separate files:

- · Links and directions to digital activities
- PowerPoint (this is the book in the lesson plan)
- Voice recorded PowerPoint
- · Activities in black and white

This unit contains 10 days of material that is in both printable and digital formats. I have included a detailed lesson plan to help you make the most of everything in this unit including daily group and individual activities.

It comes in 2 separate files.

One in color and one in black and white.

Double Digit Addition Lesson Plan

Preparation

- · Print out a vocabulary board for each student to use throughout unit
 - o Laminate or place in page protector
- Book
 - o Print out, laminate, and bind
 - OR your students can listen to the pre-recorded version
- Group activities
 - o Each group activity has materials to print
 - Print necessary materials onto cardstock and laminate
- - o Print on cardstock and laminate
 - May want several copies
- Base ten blocks
 - You will want to have access to these for the unit if possible
 - o It you do not have these, you can substitute the flashcards

NOT require

regrouping

Double digit

addition no

regrouping review

(5 minutes Solving

problems

without

Sharing

(10 minutes)

regrouping

(15 minutes)

Preassessment (do day 1 before starting lesson)

- · Use the quiz as the preassessment
- · I cannot emphasize enough how important this step i preassessment is so important!!

Teaching Tips

- 1. Color Coding: this is a really easy way to add more Outline or color in an empty box or sorting label. O picture symbols the same colors. Becomes a color ma
 - a. For more info, read more here: https://specialneedsforspecialkids.org/2015/09.
 - b. I also have a blog post on differentiating one a https://specialneedsforspecialkids.org/2018/10/ easily-and-effectively/
- 2. Make you own copies of the activities: Every day I r For that reason:
 - a. I often complete the activity myself and often could use year after year.

Quick Look

have students draw one from the

NOTE: the cards without a ✓ do not

Review the worksheets from set 2

Either write a problem for the group to

solve (that does not require regrouping) or

There are 10 worksheets in this set

needed before moving onto

Cut page apart if student is too

problems that do require

regrouping.

so) if needed

overwhelmed

· Each student shares their finished

worksheet with the group using the

communication method of their choice

Do 1-2 per day and as many days as

 As the worksheets progress, there is less visual structure provided. You can add in more structure to these later problems (of have students do

flashcards provided

require regrouping

completed yesterday

Da				Day Activity		I	Day	Activity
	oughout unit			1	Book Group activity 1: Reviewing Place Value Place value review		6	Book Group activity 2: no regrouping Solving problems: no regrouping
i	nate			2	Book Group activity 1: Reviewing Place Value Place value review		7	Book Group activity 2: with regrouping Solving problems: with regrouping
	if possible ashcards			3	Book Group activity 2: no regrouping Cally Materials		8	Book Group activity 2: with regrouping Solving problems: with regrouping
	Read or listen to the movie version of the book (10 minutes)	questions Continue to make connections between book and vocabulary board			Book Vocabulary board cally		9	Book Group activity 2: regrouping Solving proble regrouping
	Group Activity 2 Solving problems as a group that do	:	Directions are included with the acti Give each student a mat and base 10 or snap cubes o Needs to be 2 different color) block	Place value mat with ten frames (1 per student) Snap cubes (2		10	• Quiz

colors) or base

10 blocks (2

colors if

possible)

Optional: flash

double digit

cards with

problems

worksheet

Completed

Worksheet

Pencils

Optional:

Completed

worksheets

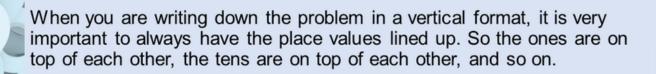
Communication devices

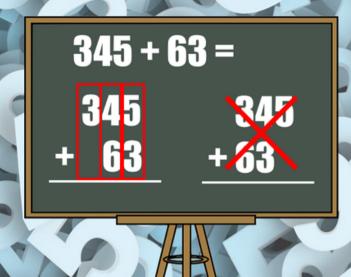
calculators to

check answers

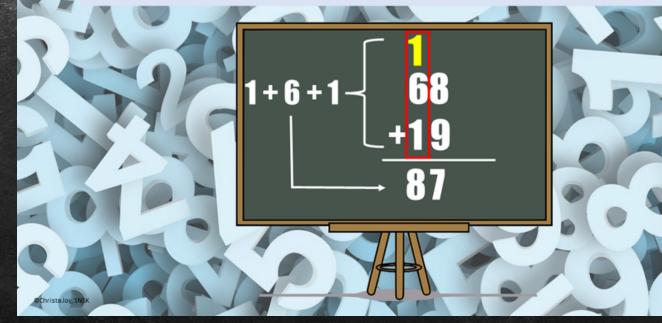
The lesson plans contain:

- Overall tips for teaching students with significant needs
- A quick look at what you will do each day
- Detailed instructions on how that day's lesson should run





Now we will add the tens, including the extra ten we made from our extra ones. And we get our final answer.



There is a 29 page book with this unit using simple text and photos.

It comes in a PowerPoint version as well as a voice-recorded movie (mp4).

Place Value Practice

- · Print one place value chart for each student and laminate.
- Give student:
 - · Place value chart
 - · 100 flats, 10 sticks, 1 units
 - · or use flashcards
 - · Dry erase marker
- · Write a number on the board.
- · Students will build the number on their mat.
- They will then practice writing it in expanded form (be sure to add the + sign)
- · Record the totals in the place value chart at the bottom.

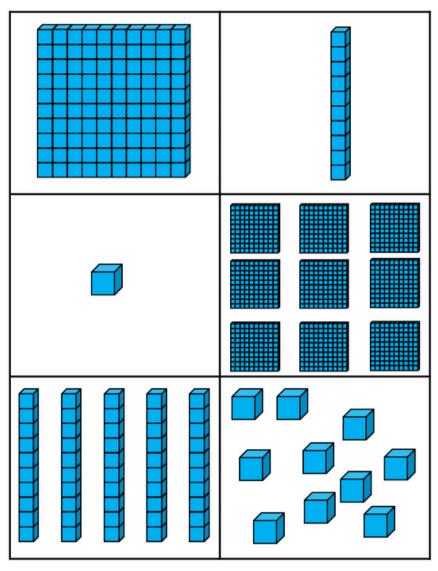
	hundreds	tens	ones
Build using Base 10 Blocks			
Write in expanded form			

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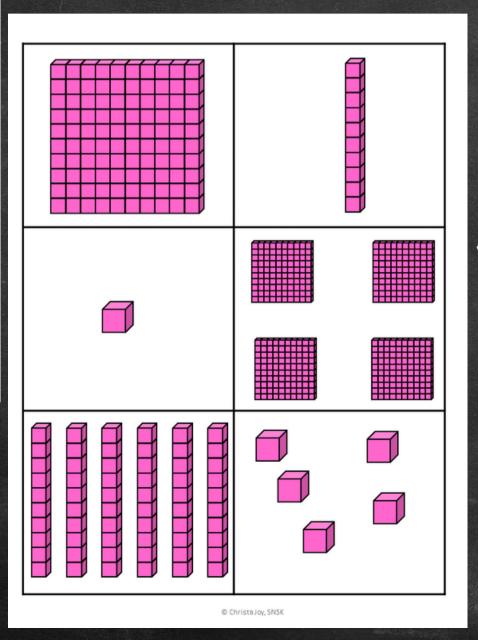
Final number:

Group activity #1

This group activity reviews place value.



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There are 7 pages of flashcards you can use if you do not have Base 10 blocks.

Suggestions for additional group activities included.

Double digit addition using manipulatives

- · Have students draw a card with an addition problem.
 - This with a ✓ in the top corner require regrouping.
 - I left enough space so you can add the vertical line dividing ones and tens places
- · You will need:
 - Place value mat (laminated) for each student. 2 different orientations are provided.
 - · Base 10 blocks or snap cubes of 2 different colors.
 - · Dry erase markers
 - · White boards
- Students will build the first number on the mat using the correct units.
 - Note: if using snap cubes, students should connect 10 blocks in a tower to form a group of 10.
- Students will then build the second number on the same board using a different color.
- If students have more than 10 ones, they should swap it out for a group of 10.
- Optional: Students will write the problem on the white board and the answer, counting the blocks they have on the mat.

 Here is a video of the process https://woutu.be/MiuGPWT420

3 2	1 2
+ 18	+ 4 9

49 29

tens	ones

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Group activity #2

Students will solve addition problems using manipulatives.

Includes 20 pages of flashcards.

There are 4 worksheet sets in this unit that scaffold skills needed for double-digit addition with regrouping.

- Place value review
- Writing problems vertically
- Adding without regrouping
- Adding with regrouping

Each set has a decreasing amount of visual structure when solving problems.

Write the following numbers in standard and expanded form.

116

	Hundreds	Tens	Ones
Standard Form			
Expanded Form			

975

	Hundreds	Tens	Ones
Standard Form			
Expanded Form			

354

	Hundreds	Tens	Ones
Standard Form			
Expanded Form			

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worksheet set 1

Complete the place value chart for each number.

Use a for hundreds, for tens and a dot for ones.

156

	Hundreds	Tens	Ones
Draw			
Standard Form			
Expanded Form			

237

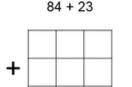
	Hundreds	Tens	Ones
Draw			
Standard Form			
Expanded Form			

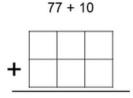
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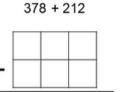
There are 5 worksheets for students to review place value.

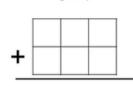
Worksheet set

Rewrite each problem vertically. Make sure to line up the same place values. Do NOT solve the problems.

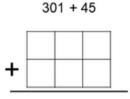


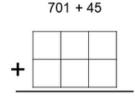






3 + 4





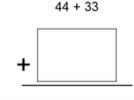
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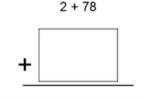
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worksheet set 2

Vorksheet set 1

Rewrite each problem vertically. Make sure to line up the same place values. Do NOT solve the problems.



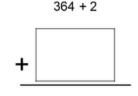


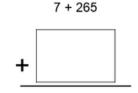


205 + 411



81 + 312



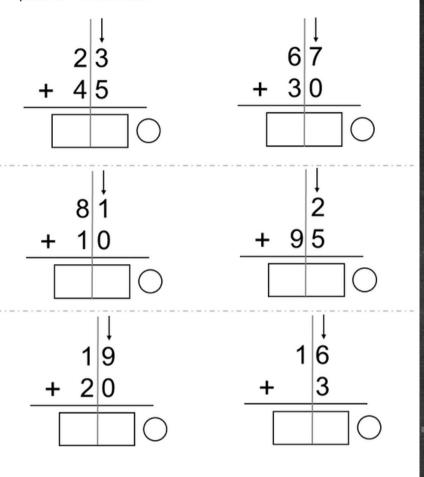


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There are 6 worksheets for students to practice writing problems vertically making sure to line up place values.

Worksheet set 2

Solve each problem. Make sure to start with the ones place. When you are done, check your answers with a calculator and place a \checkmark in the circle.



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worksheet set 3

Worksheet set 2

Solve each problem. Make sure to start with the ones place. When you are done, check your answers with a calculator and place a \checkmark in the circle.

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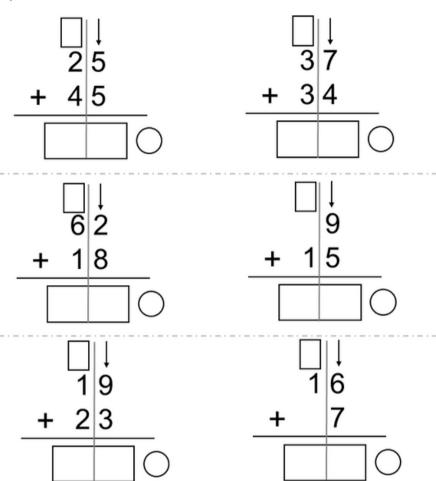
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There are 10 worksheets for students to add numbers without regrouping. There is less visual structure as you progress through the worksheets.

Students are encouraged to check their answers with a calculator.

Worksheet set 3

Solve each problem. Make sure to start with the ones place. When you are done, check your answers with a calculator and place a \checkmark in the circle.



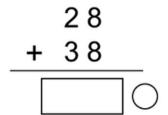
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worksheet set 4

Vorksheet set 3

Solve each problem. Make sure to start with the ones place. When you are done, check your answers with a calculator and place a ✓ in the circle.





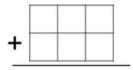
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There are 10 worksheets for students to add numbers with regrouping. There is less visual structure as you progress through the worksheets.

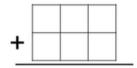
Students are encouraged to check their answers with a calculator.

Double Digit Addition Quiz

- 1. How many tens are in the number 985?
- 2. How many hundreds are in the number 467?
- 3. How many ones are in the number 450?
- 4. Rewrite this problem vertically, lining up place values: 623 + 45



5. Rewrite this problem vertically, lining up place values: 922 + 8



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Solve the following addition problems.

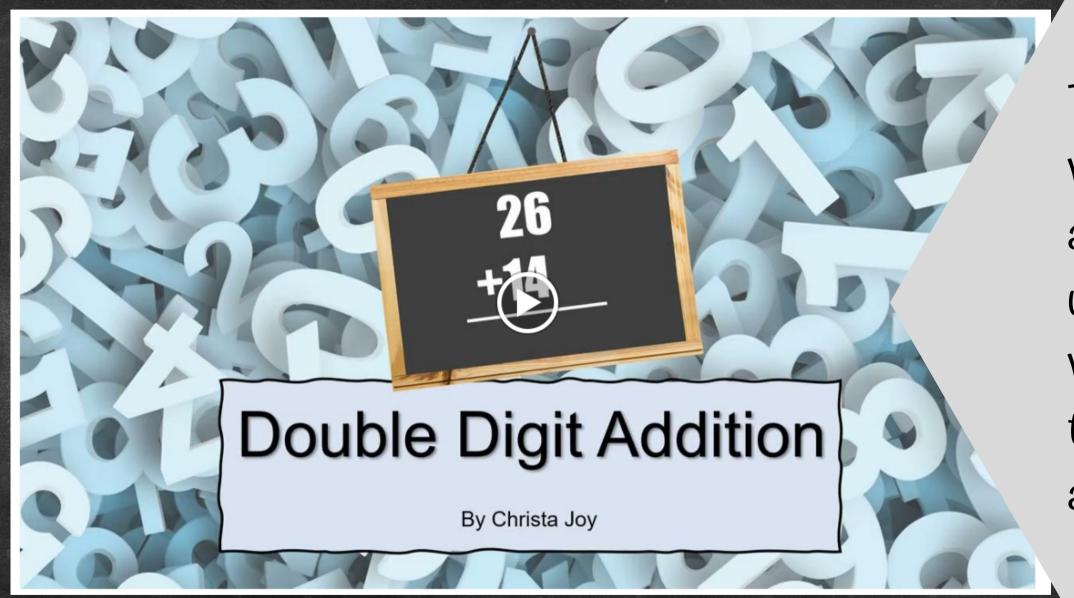
8 4 + 1 4

43+28

There is a 7 question quiz to assess understanding.

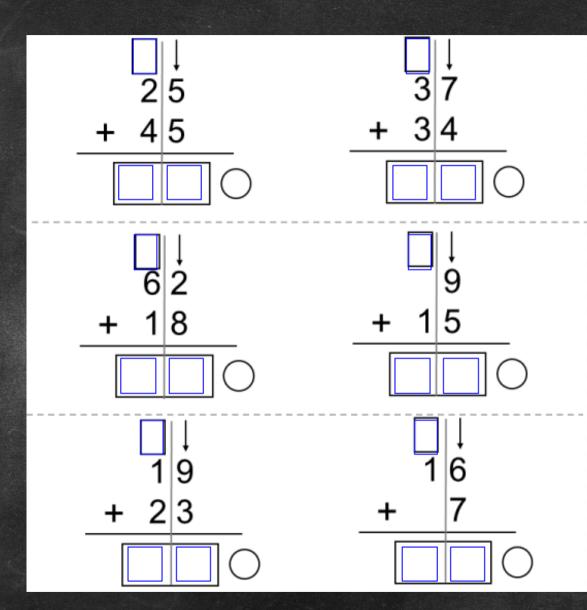
This is also used as the pre-assessment to measure growth.

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There are also digital versions of the printable activities included in this unit. There is a movie version of both books that is narrated and animated.

Great for review



Solve each problem. Make sure to start with the ones place. When you are done, check your answers with a calculator and place a ✓ in the circle.

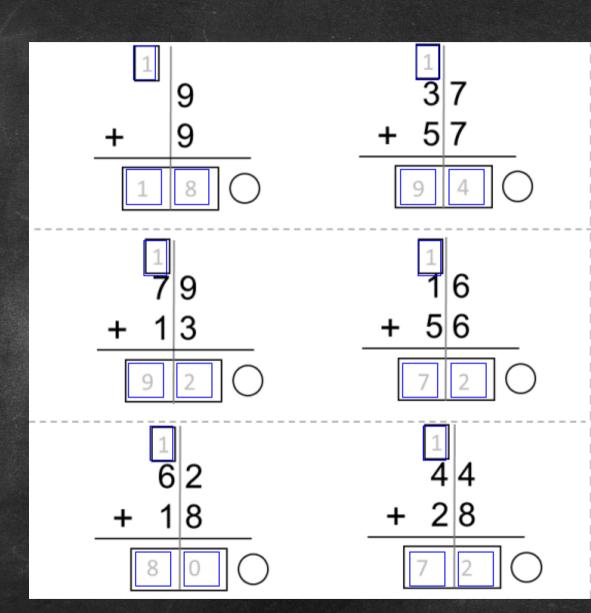


There is a set of slides for each learning level.

In this first set of slides, students type in their answers for some of the slides.

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Perfect for all learning levels.



Solve each problem. Make sure to start with the ones place. When you are done, check your answers with a calculator and place a ✓ in the circle.



In this set of slides, students will still type in some answers but there is additional visual support included (gray numbers to match to.)

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This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- Addition activities in color
- Addition activities in black and white
- Voice-recorded PowerPoint shows
- Double Digit Addition book (PowerPoint) to use with activities
- Links and directions to digital activities