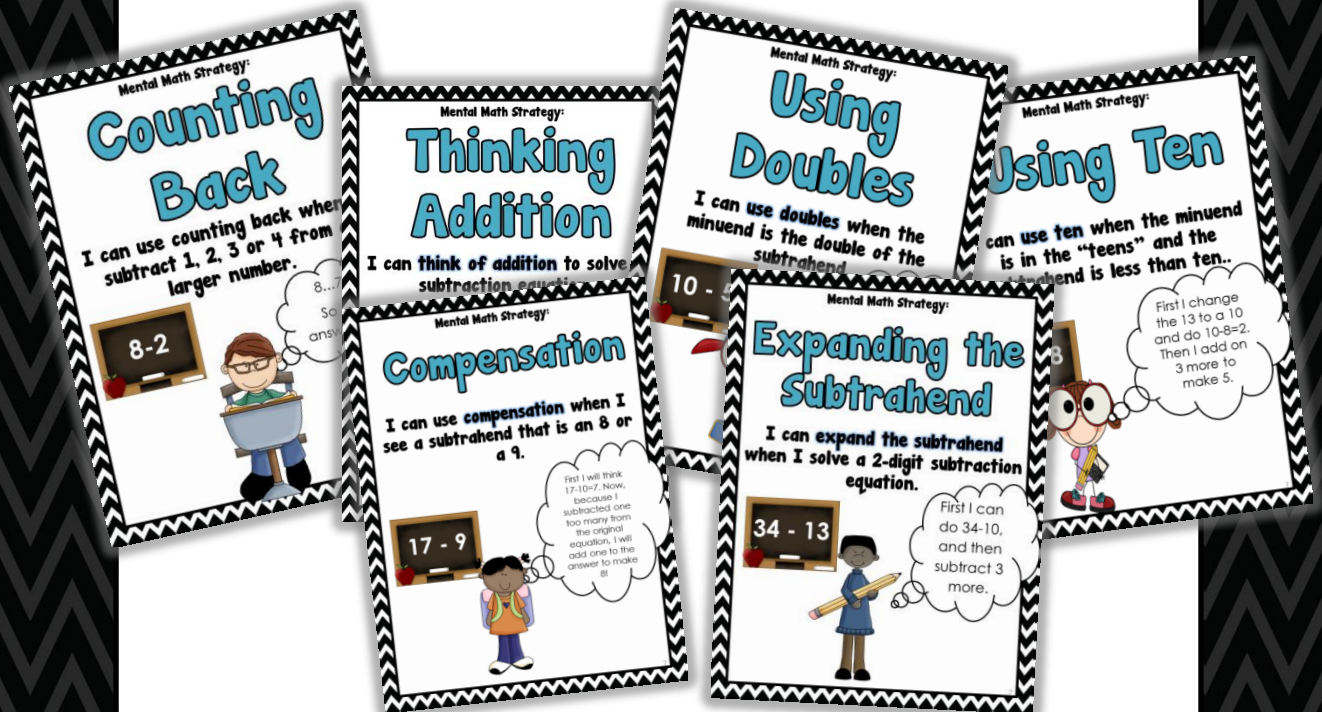


# Mental Math Strategy Units

## The Complete Subtraction Collection

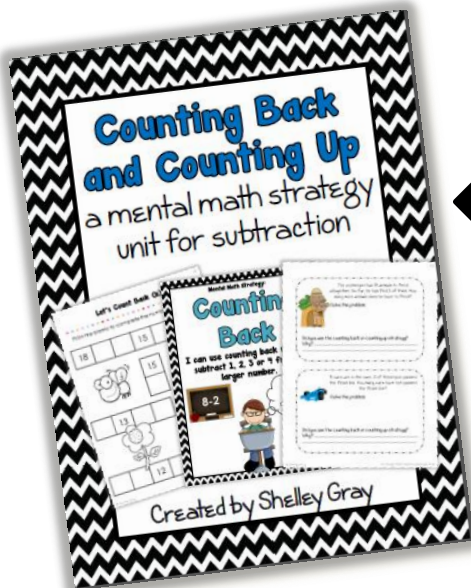


Created by Shelley Gray

# The Mental Math Subtraction Collection

The Mental Math Strategy Collection consists of a variety of mental math units, each covering a specific mental math strategy. Each strategy unit includes a wide variety of activity sheets, partner-based activities, large group kinesthetic activities and math centers that teach and reinforce the strategy in full.

The Subtraction portion of the Mental Math Strategy Collection consists of six units, which are each described below. Each unit is also sold separately and can be previewed by clicking on the title or the image.

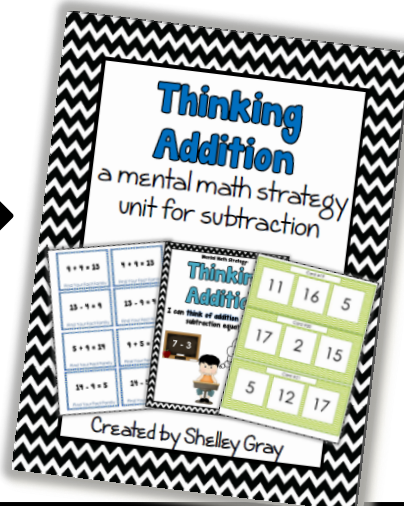


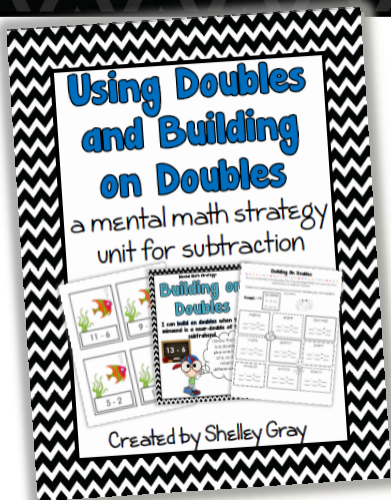
## Counting Back and Counting Up

This is a special double unit that will teach and reinforce two beginning subtraction strategies: counting back and counting up. The final section in this unit integrates the two strategies and provides practice with choosing the most effective strategy. All activities are provided at three different levels to help you target each student in your diverse classroom.

## Thinking Addition

This mental math strategy unit will provide practice and reinforcement for the important skill of thinking addition. Students will learn about the inverse relationship between addition and subtraction, and receive extensive practice with building and recognizing fact families.





## Using Doubles and Building on Doubles

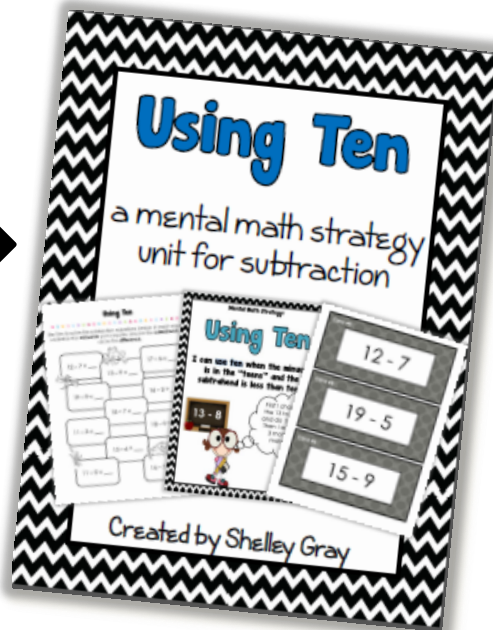
In this unit students will learn that the doubles and near doubles addition facts can be used in order to solve subtraction equations. Through a variety of engaging activities, students will work towards recognition and automaticity.

## Using Ten

This strategy unit will teach students how they can change a number in the equation to 10, making it easier to solve.

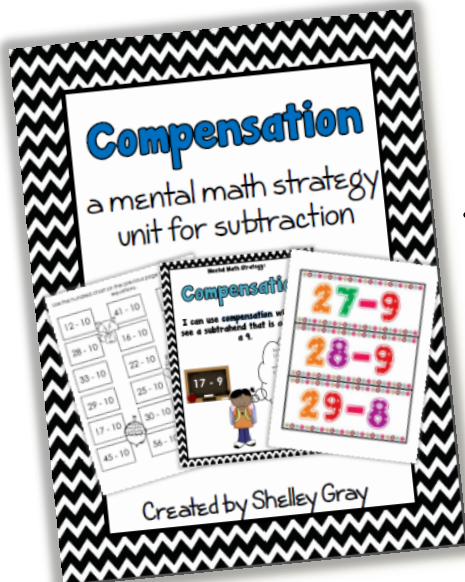
Subsequently, the answer will be adjusted to make up for the change.

The skills that students will learn and practice in this unit are very useful and transferrable to other areas of mathematics. This unit also includes a special BONUS section with activities that “use multiples of ten.” This bonus section can be used as enrichment or as a follow up to “using ten.”



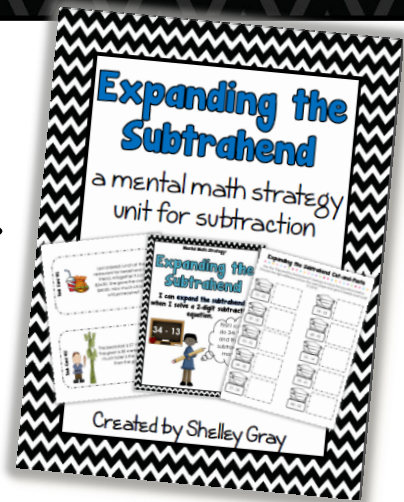
## Compensation

In this unit students will learn how to change the subtrahend in a subtraction equation to make it easier to solve. Subsequently the difference will be adjusted to make up for the original change. This unit also includes a special BONUS section that can be used as enrichment or as a follow up to the other activities in this unit.



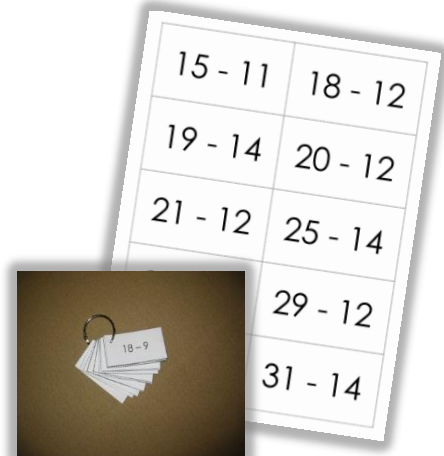
## Expanding the Subtrahend

In this unit students will learn how to expand the number being taken away (the subtrahend) in a 2-digit subtraction equation. Through a variety of engaging written and hands-on activities, students will learn to use expanded notation to make an equation more manageable.



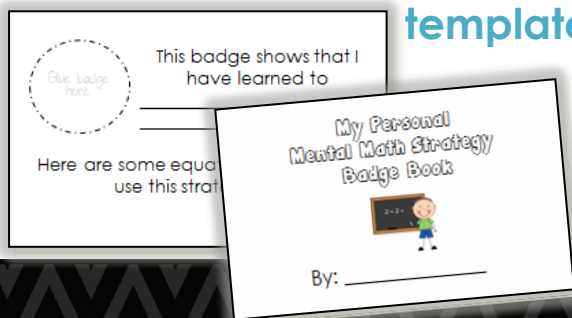
**Each strategy unit includes all the resources needed to teach the strategy and engage your students. The contents of each unit includes:**

colorful classroom  
strategy posters



mini student  
flashcards

student badges and  
personal badge book  
templates



portfolio  
reflections

engaging activity sheets that will explicitly teach the strategy, as well as provide practice and reinforcement

**Jumps on an Empty Number Line**  
 You can use an empty number line to help you expand the subtrahend.  
 Example:  $34 - 25$

**Expanding the Subtrahend Cut-and-Paste**  
 Use the "Expand the Subtrahend" strategy to solve the equations. Choose the right difference from the next page and glue it on the sand.  
 Examples:  $72 - 23$ ,  $54 - 22$ ,  $39 - 18$ ,  $49 - 45$ ,  $95 - 52$ ,  $33 - 14$ ,  $64 - 38$ ,  $59 - 41$ ,  $77 - 36$ ,  $84 - 52$

**Related Facts (a)**  
 Did you know that addition and subtraction are related? Each set of addition and subtraction facts is called a "fact family."  
 Examples:  $5 + 4 = 7$ ,  $7 - 4 = 3$ ,  $4 + 3 = 7$ ,  $7 - 3 = 4$

**Finger Math**  
 Look at the minuend in each equation. Cover the ones digit with your finger and calculate the difference as if the minuend is 10. Then take your finger off and add the number that was under your finger to the difference.  
 Example:  $12 - 7$   
 $12 - 7 = 5$

**Using Ten Recording Sheet**  
 Solve the equations using the "use ten" method of math strategy and write the numbers below.

Minuend	Subtrahend	Difference

**Catching Frogs Use Ten Math Center**  
 Created by Shelley Gray

**Fish Math Cards**

$17 - 4$	$18 - 2$
$19 - 3$	$20 - 3$

fun center activities to practice each strategy

Hands on, kinesthetic activities for individuals and the whole class; get your students moving, manipulating and learning!

**Counting Up Cut-and-Paste (a)**  
 Read the subtraction equation on each whale. Find the matching difference beside the equation.

**Problem #1**  $18 - 8$      $10$

**Problem #2**  $8 - 6$      $2$

**Problem #3**  $4 - 3$      $1$

**Problem #4**  $9 - 4$      $5$

**Problem #5**  $15 - 10$      $5$

**Problem #6**  $16 - 8$      $8$

**Card #16**  $9$      $5$

**Card #17**  $15$      $10$

**Card #18**  $16$      $8$

**Fact Family Cards**

$1 + 5 = 6$	$5 + 1 = 6$
$6 - 5 = 1$	$6 - 1 = 5$
$4 + 3 = 7$	$3 + 4 = 7$
$7 - 3 = 4$	$7 - 4 = 3$

**Flashcard Task Cards**

Write each subtraction equation and its related addition equation.

Addition Equation	Related Subtraction Equation

**Flashcard Task Cards**

Solve each subtraction equation and its difference in a fact family. Write the other 3 equations that make up each fact family.

$58 - 3$	
$61 - 58$	
$70 - 66$	

flash cards and task cards to use independently, in pairs or as a learning center

# Testimonials

"I have purchased both addition and subtraction sets and there was so much in both units! I feel like I only scratched the surface when I started mid-year. I'm anxious to start at the beginning of the year and see how it will make a difference with my kids!"

"LOVE THESE!!!! What a HUGE timesaver for me! So easy to follow and the kids love them! Thank you!"

"After the Mental Math Addition units were a hit with my class, I knew I had to get the Subtraction bundle next! My students love the centres, and I like the different levels so I can differentiate for my students. Fantastic resource!"

"Aaaaamazing! This is so thoughtful and well put together. I cannot wait to use it with my first graders this year and then again when I loop with them next year :)"

"The subtraction units are just as great as the addition units and the problem solving units. Your materials are really taking over my math program and I am grateful!"

"This is one of those things I can't believe I've lived without until now. It really makes a huge difference."

"I love this unit! I always struggle with ways to get my students excited about subtraction and this did just that!"

To view all of Shelley Gray's mental math resources on Teachers Pay Teachers, please visit the link below:

<http://www.teacherspayteachers.com/Store/Shelley-Gray/Category/Mental-Math>

Have a GREAT DAY!