

# Strategy #1: Plus Zero

The following section will provide practice and reinforcement with the property of zero, while working with sums to 9999. Students will practice that whenever they add zero to a number, the sum is always that number.

The  
Property of

# ZERO

$0+980=980$

$2561+0=2561$

$1000+0=1000$

$37+0=37$

$0+2900=2900$

$3461+0=3461$

$24+0=24$

$0+111=111$

$4215+0=4215$

$10+0=10$

$0+393=393$

$2156+0=2156$

$0+15=15$

$160+0=160$

$900+0=900$

What do you notice about the facts in the box above?

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When you add 0 to a number, the sum is always that number. Try it!

$236+0=$

$0+981=$

$25+0=$

$1400+0=$

$7000+0=$

$0+241=$

$0+1212=$

$0+267=$

$2490+0=$

Write 12 "Plus 0" facts in the box below:

# True OR False?

Shade the rectangles.

True - Green

False - Red

$$450+0=450$$

$$4000+0=40,000$$

$$0+68=680$$

$$3000+0=3000$$

$$82+0=82$$

$$4561+0=4562$$

$$711+0=711$$

$$0+9000=0$$

$$0+9999=9999$$

$$10+0=100$$

$$50+0=500$$

$$1212+0=1212$$

Write five "Plus 0" equations that are TRUE:

Write five "Plus 0" equations that are FALSE:

# For the Teacher

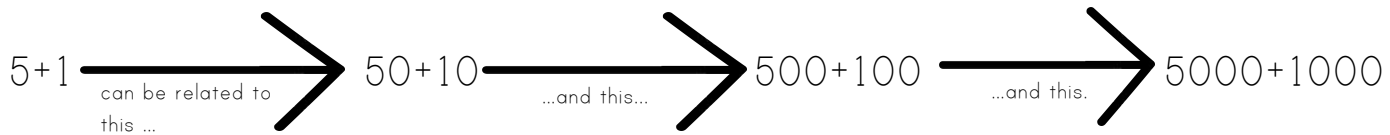
## Strategy #2: Plus One

The following section will provide practice and reinforcement of plus 1 concepts.

The level begins with a brief review of adding 1 to a number between 0 and 9999. Students should already be comfortable with this concept from previous grades, but it is still important to provide review.

After the review, students will learn to use their knowledge of plus 1 concepts to add larger numbers in the 10's, 100's, and 1000's.

For example, students can relate the following four equations:



One

more

NUMBER	1 MORE
3551	3552
213	
709	
1145	
42	
8965	
9	

NUMBER	1 MORE
198	
2409	
5557	
354	
86	
15	
336	

When you add 1, the sum is always **ONE MORE** than that number.

$$329 + 1 = \underline{\quad}$$

↑  
1 more than 329

$$110 + 1 = \underline{\quad}$$

↑  
1 more than 110

$$203 + 1 = \underline{\quad}$$

↑  
1 more than 203

$$2112 + 1 = \underline{\quad}$$

↑  
1 more than 2112

$$5262 + 1 = \underline{\quad}$$

↑  
1 more than 5262

$$59 + 1 = \underline{\quad}$$

↑  
1 more than 59

# Let's Use PLUS ONE

We can use Plus 1 for other equations. Take a look at the equations below:

$$2+1=3 \longrightarrow 20+10=30 \longrightarrow 200+100=300 \longrightarrow 2000+1000=3000$$

$$5+1=6 \longrightarrow 50+10=60 \longrightarrow 500+100=600 \longrightarrow 5000+1000=6000$$

$$8+1=9 \longrightarrow 80+10=90 \longrightarrow 800+100=900 \longrightarrow 8000+1000=9000$$

What do you notice about the equations in the box above?

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Fill in the blanks:

$$3+1= \underline{\quad} \longrightarrow 30+10= \underline{\quad} \longrightarrow 300+100= \underline{\quad} \longrightarrow 3000+1000= \underline{\quad}$$

$$8+1= \underline{\quad} \longrightarrow 80+10= \underline{\quad} \longrightarrow 800+100= \underline{\quad} \longrightarrow 8000+1000= \underline{\quad}$$

$$4+1= \underline{\quad} \longrightarrow 40+10= \underline{\quad} \longrightarrow 400+100= \underline{\quad} \longrightarrow 4000+1000= \underline{\quad}$$

$$7+1= \underline{\quad} \longrightarrow 70+10= \underline{\quad} \longrightarrow 700+100= \underline{\quad} \longrightarrow 7000+1000= \underline{\quad}$$

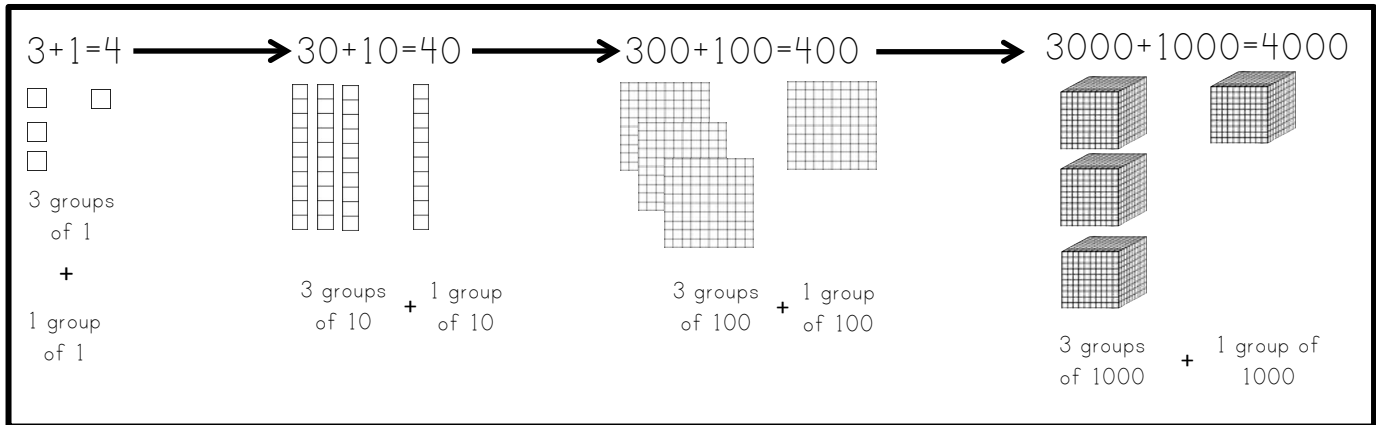
$$1+1= \underline{\quad} \longrightarrow 10+10= \underline{\quad} \longrightarrow 100+100= \underline{\quad} \longrightarrow 1000+1000= \underline{\quad}$$

$$2+1= \underline{\quad} \longrightarrow 20+10= \underline{\quad} \longrightarrow 200+100= \underline{\quad} \longrightarrow 2000+1000= \underline{\quad}$$

$$6+1= \underline{\quad} \longrightarrow 60+10= \underline{\quad} \longrightarrow 600+100= \underline{\quad} \longrightarrow 6000+1000= \underline{\quad}$$

$$5+1= \underline{\quad} \longrightarrow 50+10= \underline{\quad} \longrightarrow 500+100= \underline{\quad} \longrightarrow 5000+1000= \underline{\quad}$$

Ones, Tens, Hundreds, Thousands:

**The Plus One Facts**

Draw base ten blocks for each equation. Then write the sum.

$6+1=$  \_\_\_\_\_

$5000+1000=$  \_\_\_\_\_

$40+10=$  \_\_\_\_\_

$200+100=$  \_\_\_\_\_

$20+10=$  \_\_\_\_\_

$7000+1000=$  \_\_\_\_\_

$300+100=$  \_\_\_\_\_

# Extending the Plus One Facts

When we see an equation like this:  $700+100=$ \_\_\_\_\_, we can think to ourselves, "I know that  $7+1=8$ , so  $700+100=800$ ."

When we see an equation like this:  $7000+1000=$ \_\_\_\_\_, we can think to ourselves, "I know that  $7+1=8$ , so  $7000+1000=8000$ ."

Write the sum for each equation. If the sum is less than 4999, shade the box yellow. If the sum is greater than 4999, shade the box orange:

$50+10=$ \_\_\_\_\_

$8000+1000=$ \_\_\_\_\_

$400+100=$ \_\_\_\_\_

$9+1=$ \_\_\_\_\_

$100+100=$ \_\_\_\_\_

$3000+1000=$ \_\_\_\_\_

$60+10=$ \_\_\_\_\_

$500+100=$ \_\_\_\_\_

$2000+1000=$ \_\_\_\_\_

$7000+1000=$ \_\_\_\_\_

$800+100=$ \_\_\_\_\_

$4+1=$ \_\_\_\_\_

$200+100=$ \_\_\_\_\_

$30+10=$ \_\_\_\_\_

$1000+1000=$ \_\_\_\_\_

$700+100=$ \_\_\_\_\_

$6000+1000=$ \_\_\_\_\_

$70+10=$ \_\_\_\_\_



# Putting It ALL TOGETHER

Use the Plus 0 and Plus 1 strategies to complete each equation.

$4509 + \square = 4509$

$400 + \square = 500$

$2000 + \square = 3000$

$3980 + \square = 3981$

$600 + \square = 700$

$124 + \square = 125$

$30 + \square = 40$

$2000 + \square = 2001$

$48 + \square = 48$

$7982 + \square = 7983$

$200 + \square = 300$

$900 + \square = 1000$

$450 + \square = 450$

$1000 + \square = 2000$

$70 + \square = 80$

$615 + \square = 616$

$7000 + \square = 8000$

$199 + \square = 200$

Write 4 equations that use the plus 1 strategy with 100's, or 1000's:

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

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

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

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

## For the Teacher

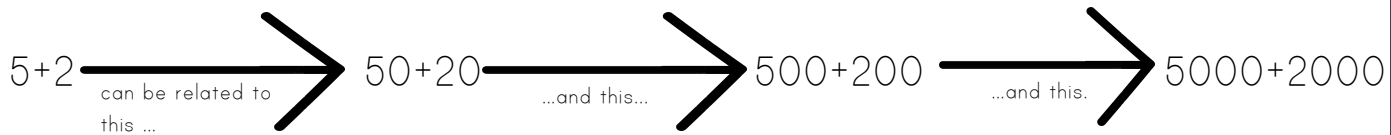
# Strategy #3: Plus Two

The following section will provide practice and reinforcement of plus 2 concepts.

The level begins with a brief review of adding 2 to a number between 0 and 9998. Students should already know this from previous grades, but it is still important to provide review.

After the review, students will learn to use their knowledge of plus 2 concepts to add larger numbers in the 10's, 100's, and 1000's.

For example, students can relate the following four equations:



Two

MORE

NUMBER	2 MORE
3482	3484
2446	
314	
25	
509	
4713	
1000	

NUMBER	2 MORE
365	
89	
7	
1703	
250	
567	
9003	

When you add 2, the sum is always TWO MORE than that number.

$$3490 + 2 = \underline{\quad}$$

 2 more  
than 3490

$$600 + 2 = \underline{\quad}$$

 2 more than  
600

$$398 + 2 = \underline{\quad}$$

 2 more than 398

$$225 + 2 = \underline{\quad}$$

 2 more than 225

$$1314 + 2 = \underline{\quad}$$

 2 more than 1314

$$87 + 2 = \underline{\quad}$$

 2 more than 87

# Let's Use PLUS TWO

We can use Plus 2 for other equations. Take a look at the equations below:

$$5+2=7 \longrightarrow 50+20=70 \longrightarrow 500+200=700 \longrightarrow 5000+2000=7000$$

$$3+2=5 \longrightarrow 30+20=50 \longrightarrow 300+200=500 \longrightarrow 3000+2000=5000$$

$$6+2=8 \longrightarrow 60+20=80 \longrightarrow 600+200=800 \longrightarrow 6000+2000=8000$$

What do you notice about the equations in the box above?

Fill in the blanks:

$$3+2= \underline{\quad} \longrightarrow 30+20= \underline{\quad} \longrightarrow 300+200= \underline{\quad} \longrightarrow 3000+2000= \underline{\quad}$$

$$5+2= \underline{\quad} \longrightarrow 50+20= \underline{\quad} \longrightarrow 500+200= \underline{\quad} \longrightarrow 5000+2000= \underline{\quad}$$

$$4+2= \underline{\quad} \longrightarrow 40+20= \underline{\quad} \longrightarrow 400+200= \underline{\quad} \longrightarrow 4000+2000= \underline{\quad}$$

$$7+2= \underline{\quad} \longrightarrow 70+20= \underline{\quad} \longrightarrow 700+200= \underline{\quad} \longrightarrow 7000+2000= \underline{\quad}$$

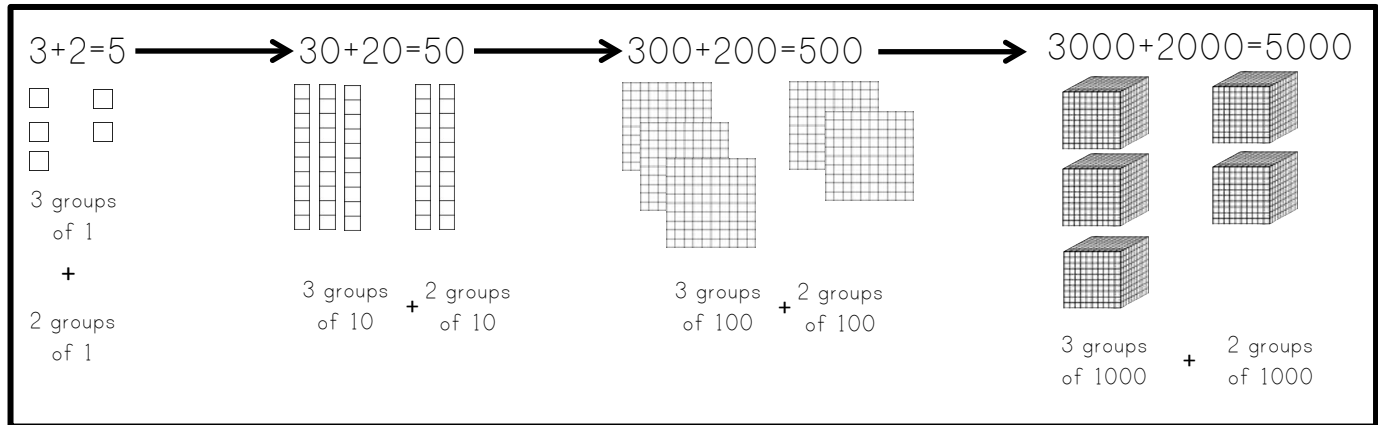
$$1+2= \underline{\quad} \longrightarrow 10+20= \underline{\quad} \longrightarrow 100+200= \underline{\quad} \longrightarrow 1000+2000= \underline{\quad}$$

$$2+2= \underline{\quad} \longrightarrow 20+20= \underline{\quad} \longrightarrow 200+200= \underline{\quad} \longrightarrow 2000+2000= \underline{\quad}$$

$$6+2= \underline{\quad} \longrightarrow 60+20= \underline{\quad} \longrightarrow 600+200= \underline{\quad} \longrightarrow 6000+2000= \underline{\quad}$$

$$5+2= \underline{\quad} \longrightarrow 50+20= \underline{\quad} \longrightarrow 500+200= \underline{\quad} \longrightarrow 5000+2000= \underline{\quad}$$

Ones, Tens, Hundreds, Thousands:

**The Plus Two Facts**

Draw base ten blocks for each equation. Then write the sum.

$4+2=$  \_\_\_\_\_

$3000+2000=$  \_\_\_\_\_

$30+20=$  \_\_\_\_\_

$500+200=$  \_\_\_\_\_

$20+20=$  \_\_\_\_\_

$6000+2000=$  \_\_\_\_\_

$700+200=$  \_\_\_\_\_

# Extending the Plus Two Facts

When we see an equation like this:  $400+200=$ \_\_\_\_, we can think to ourselves, "I know that  $4+2=6$ , so  $400+200=600$ ."

When we see an equation like this:  $4000+2000=$ \_\_\_\_, we can think to ourselves, "I know that  $4+2=6$ , so  $4000+2000=6000$ ."

Write the sum for each equation. If the sum is less than 4999, shade the box light blue. If the sum is greater than 4999, shade the box red:

$60+20=$ \_\_\_\_\_

$1000+2000=$ \_\_\_\_\_

$3000+2000=$ \_\_\_\_\_

$4000+2000=$ \_\_\_\_\_

$500+200=$ \_\_\_\_\_

$5000+2000=$ \_\_\_\_\_

$700+200=$ \_\_\_\_\_

$200+200=$ \_\_\_\_\_

$7000+2000=$ \_\_\_\_\_

$400+200=$ \_\_\_\_\_

$50+20=$ \_\_\_\_\_

$30+20=$ \_\_\_\_\_

$300+200=$ \_\_\_\_\_

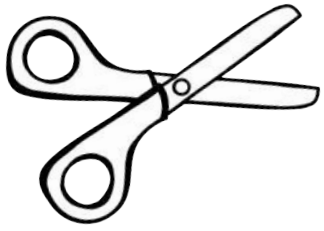
$100+200=$ \_\_\_\_\_

$6000+2000=$ \_\_\_\_\_

$2000+2000=$ \_\_\_\_\_

$900+200=$ \_\_\_\_\_

$80+20=$ \_\_\_\_\_



# Graph It!

Cut out each equation. Paste it onto the graph.

Sums between 0 and 1999	Sums between 2000 and 3999	Sums between 4000 and 5999	Sums between 6000 and 7999	Sums between 8000 and 9999

Sum



$600+200$	$8000+1000$	$4568+2$	$6050+0$	$498+2$
$3000+2000$	$2369+2$	$7000+1000$	$300+200$	$6578+2$
$2000+1000$	$60+20$	$9756+2$	$6000+1000$	$3000+1000$

# For the Teacher

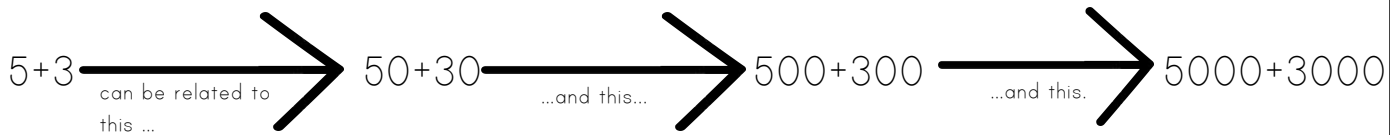
## Strategy #4: Plus Three

The following section will provide practice and reinforcement of plus 3 concepts.

The level begins with a brief review of adding 3 to a number between 0 and 9997. Students should already know this from previous grades, but it is still important to provide review.

After the review, students will learn to use their knowledge of plus 3 concepts to add larger numbers in the 10's, 100's, and 1000's.

For example, students can relate the following 4 equations:





# PLUS THREE

Let's review the plus three strategy:

$$105 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{108}$$

↑            ↑

OR

Think to yourself,  
"Which number is 3  
more than 105?"

Say, "105."      Use the dots to count up.  
Say, "106, 107, 108.."

Use the dots to count on.

$176 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$78 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$3908 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$209 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$700 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$450 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$1176 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$6900 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$8429 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$2000 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$376 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$772 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$9830 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$27 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

$99 + \begin{array}{|c|} \hline \bullet \\ \bullet \\ \bullet \\ \hline \end{array} = \underline{\hspace{2cm}}$

Find the sums:

$3476 + 3 = \underline{\hspace{2cm}}$

$567 + 3 = \underline{\hspace{2cm}}$

$4500 + 3 = \underline{\hspace{2cm}}$

$1001 + 3 = \underline{\hspace{2cm}}$

$400 + 3 = \underline{\hspace{2cm}}$

$34 + 3 = \underline{\hspace{2cm}}$

$2375 + 3 = \underline{\hspace{2cm}}$

$4000 + 3 = \underline{\hspace{2cm}}$

$2734 + 3 = \underline{\hspace{2cm}}$

$800 + 3 = \underline{\hspace{2cm}}$

$1999 + 3 = \underline{\hspace{2cm}}$

$100 + 3 = \underline{\hspace{2cm}}$

# Let's Use **PLUS THREE**

Just like Plus 1 and Plus 2, we can use Plus 3 for other equations. Take a look at the equations below:

$$2+3=5 \longrightarrow 20+30=50 \longrightarrow 200+300=500 \longrightarrow 2000+3000=5000$$

$$6+3=9 \longrightarrow 60+30=90 \longrightarrow 600+300=900 \longrightarrow 6000+3000=9000$$

$$5+3=8 \longrightarrow 50+30=80 \longrightarrow 500+300=800 \longrightarrow 5000+3000=8000$$

How is the Plus 3 strategy similar to the Plus 1 and Plus 2 strategies?

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Fill in the blanks:

$$3+3= \underline{\quad} \longrightarrow 30+30= \underline{\quad} \longrightarrow 300+300= \underline{\quad} \longrightarrow 3000+3000= \underline{\quad}$$

$$2+3= \underline{\quad} \longrightarrow 20+30= \underline{\quad} \longrightarrow 200+300= \underline{\quad} \longrightarrow 2000+3000= \underline{\quad}$$

$$4+3= \underline{\quad} \longrightarrow 40+30= \underline{\quad} \longrightarrow 400+300= \underline{\quad} \longrightarrow 4000+3000= \underline{\quad}$$

$$6+3= \underline{\quad} \longrightarrow 60+30= \underline{\quad} \longrightarrow 600+300= \underline{\quad} \longrightarrow 6000+3000= \underline{\quad}$$

$$1+3= \underline{\quad} \longrightarrow 10+30= \underline{\quad} \longrightarrow 100+300= \underline{\quad} \longrightarrow 1000+3000= \underline{\quad}$$

$$5+3= \underline{\quad} \longrightarrow 50+30= \underline{\quad} \longrightarrow 500+300= \underline{\quad} \longrightarrow 5000+3000= \underline{\quad}$$

# Extending the Plus Three Facts

Now that you know how to extend the Plus 1 and Plus 2 facts, extending the Plus 3 facts is easy! Let's practice!

Write the sum for each equation. Circle the equation that was the most difficult to figure out. Shade in the box for the equation that was the easiest.

$100+300=$  \_\_\_\_\_

$800+300=$  \_\_\_\_\_

$4000+3000=$  \_\_\_\_\_

$50+30=$  \_\_\_\_\_

$200+300=$  \_\_\_\_\_

$2000+3000=$  \_\_\_\_\_

$20+30=$  \_\_\_\_\_

$500+300=$  \_\_\_\_\_

$300+300=$  \_\_\_\_\_

$6000+3000=$  \_\_\_\_\_

$40+30=$  \_\_\_\_\_

$1000+3000=$  \_\_\_\_\_

Solve the problems. Show your work for each one.

The play structure costs \$6000. A swing set costs \$3000. How much does it cost for the play structure and swing set altogether?


There are 400 people at the concert. There are still 300 empty seats. How many seats are at the concert in all?


# Putting It All **TOGETHER**


Use the strategies that you have learned so far to solve the equations.


  
 $3000+3=$   
\_\_\_\_\_


  
 $3256+1=$   
\_\_\_\_\_


  
 $40+20=$   
\_\_\_\_\_


  
 $400+100=$   
\_\_\_\_\_


  
 $4445+2=$   
\_\_\_\_\_

  
 $50+30=$   
\_\_\_\_\_


  
 $300+100=$   
\_\_\_\_\_


  
 $5490+3=$   
\_\_\_\_\_


  
 $7000+1000=$   
\_\_\_\_\_


  
 $6000+2000=$   
\_\_\_\_\_


  
 $0+9899=$   
\_\_\_\_\_


  
 $600+300=$   
\_\_\_\_\_

  
 $40+30=$   
\_\_\_\_\_

  
 $3000+2000=$   
\_\_\_\_\_


  
 $4000+3000=$   
\_\_\_\_\_

  
 $8000+1000=$   
\_\_\_\_\_

  
 $200+200=$   
\_\_\_\_\_

  
 $3490+0=$   
\_\_\_\_\_

  
 $1002+2=$   
\_\_\_\_\_

  
 $70+20=$   
\_\_\_\_\_

# Bonus Activity - Teacher Instructions

Include this activity at the end of Level 4 in your Addition Station.

This activity integrates the strategies that students have already learned: +0, +1, +2, and +3.

## Overview:


In this Bonus Activity, students choose a task card, add the numbers, and record the equations in their notebook or on the recording sheet.

## Preparation:

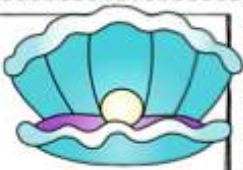
- Print and laminate task cards.
- Make copies of recording sheets (you may wish to have students record the answers in their notebooks instead).
- To set these up, I typically cut out the title and directions and paste them on either side of a piece of cereal box cardboard. I store the center pieces in small re-sealable bags, and then keep everything in a large re-sealable bag. I've made a video showing how I make and store the center pieces that you can watch by clicking here:

<https://www.youtube.com/watch?v=Z4EKxxCYnjo&feature=youtu.be>

# Scuba Diver Addition Math Center



$50+30$

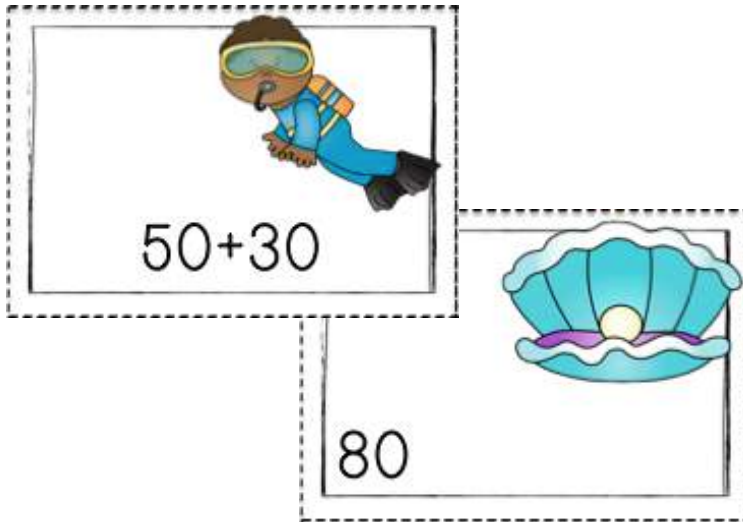
A dashed-line box containing a small version of the scuba diver illustration from the left, positioned above the equation  $50+30$ .

80

A dashed-line box containing a blue and purple seashell illustration above the number 80.

## Directions

Choose a scuba diver card. Read the equation and find the matching sum on a seashell card. Place the two cards together and record the equations on the recording sheet.





$$1298+0$$



$$2349+1$$



$$1+8700$$



$$40+10$$



$$900+100$$



$$3000+1000$$



$$70+90$$



$$300+200$$





$$900+200$$



$$500+200$$



$$6000+2000$$



$$4000+2000$$



$$1000+2000$$



$$3455+3$$



$$7808+3$$



$$2101+3$$



$$40+30$$



$$70+30$$



$$50+30$$



$$200+300$$



$$800+300$$



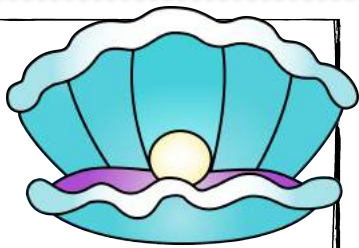
$$900+300$$



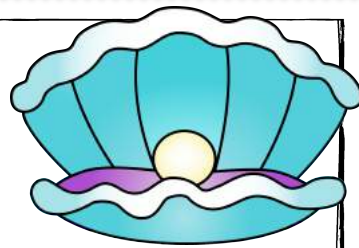
$$3000+3000$$



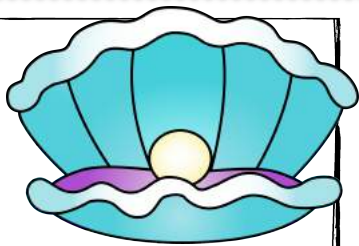
$$6000+3000$$



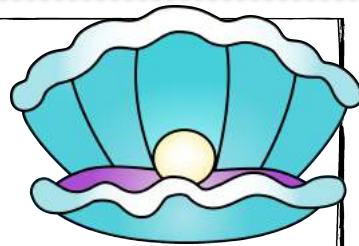
1298



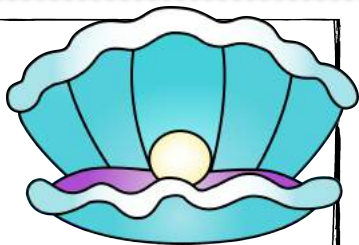
2350



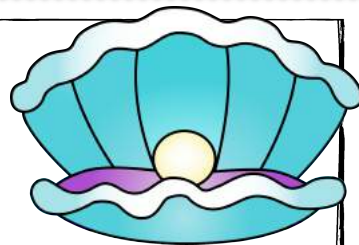
8701



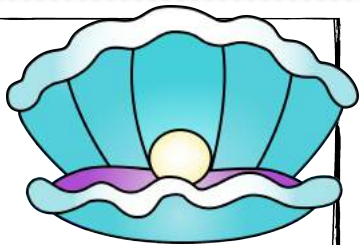
50



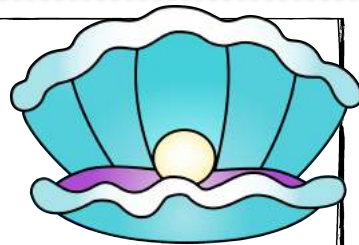
1000



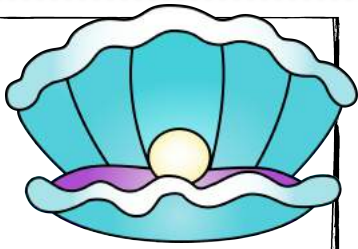
4000



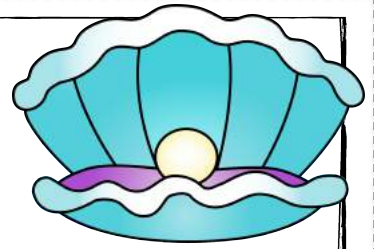
160



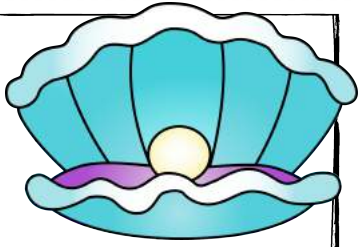
500



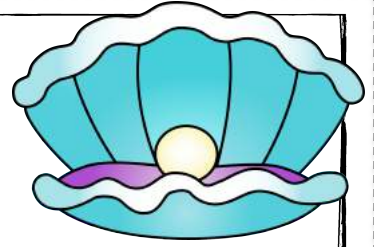
1100



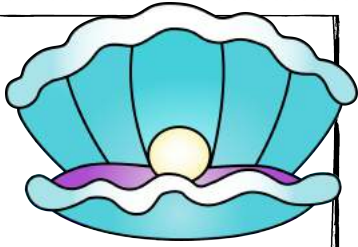
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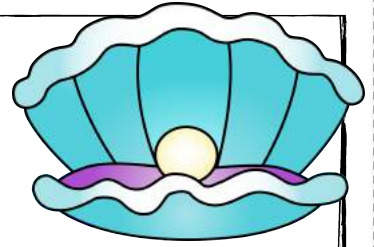
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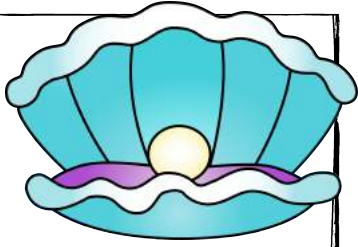
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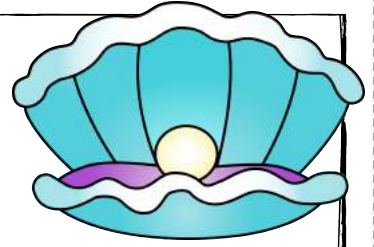
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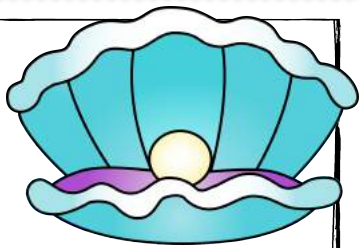
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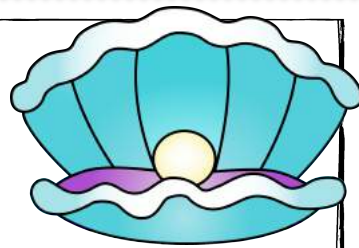
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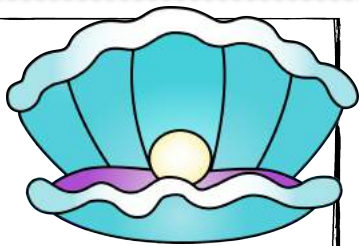
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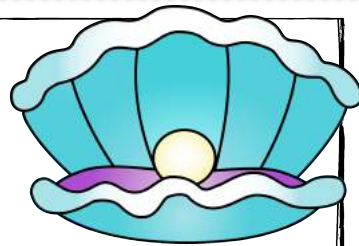
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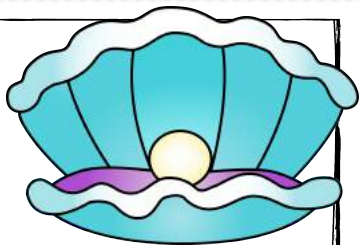
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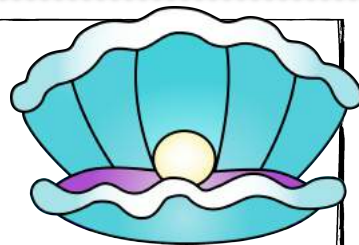
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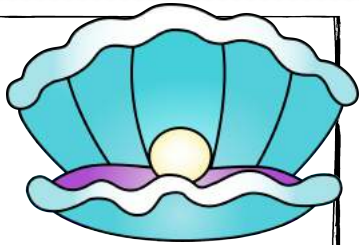
500



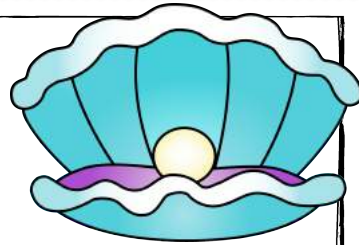
1100



1200



6000



9000



# Recording Sheet

Record the addends and sum for each equation.

Addend	Addend	Sum

Addend	Addend	Sum

# For the Teacher

## Strategy #5: Doubles

In this section, students will practice the doubles facts. By this time, students should have received instruction and practice (in previous grades) for the doubles facts. However, it is important to note that some students will still not have developed automaticity.

For the basic doubles facts ( $2+2$ ,  $4+4$ ,  $5+5$ , etc), memorization should be a goal. It is important to provide time to practice this in your classroom.

After this level's brief review of doubles to 12, students will use their knowledge in order to extend the doubles equations to larger numbers in the 10's, 100's, and 1000's.

For example, students can relate the following four equations:



$$4+4 \xrightarrow{\text{can be related to this ...}} 40+40 \xrightarrow{\text{...and this...}} 400+400 \xrightarrow{\text{...and this.}} 4000+4000$$


This gets more difficult with equations such as the following (students will not work with equations that have a sum greater than 10,000, such as  $6000+6000$ ):



$$6+6 \xrightarrow{\text{can be related to this..}} 60+60 \xrightarrow{\text{...and this.}} 600+600$$

Let's Practice the  
**Doubles Facts**

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

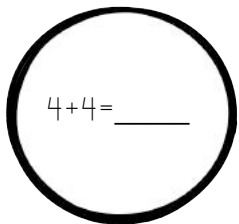
 +  = \_\_\_\_\_

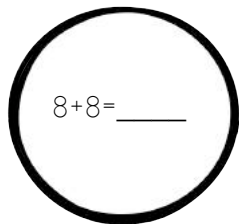
 +  = \_\_\_\_\_

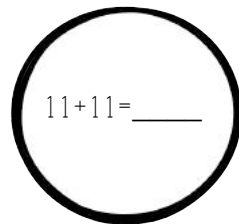
 +  = \_\_\_\_\_

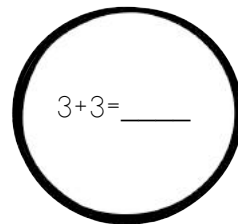
 +  = \_\_\_\_\_

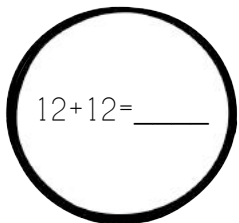
Solve the doubles equations. If the sum is less than 15, shade the circle yellow. If the sum is greater than 15, shade the circle red.

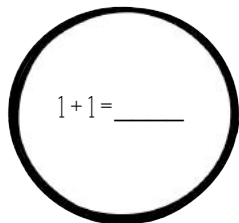


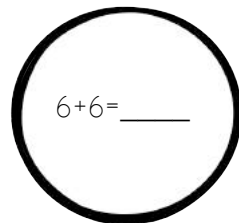


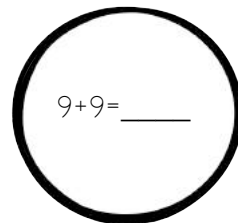


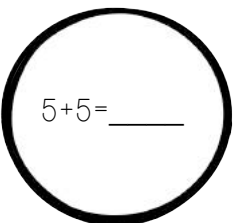


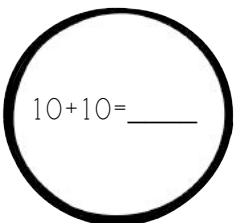


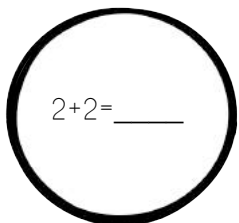


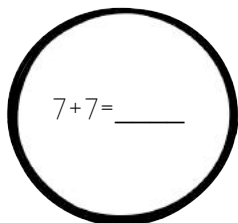








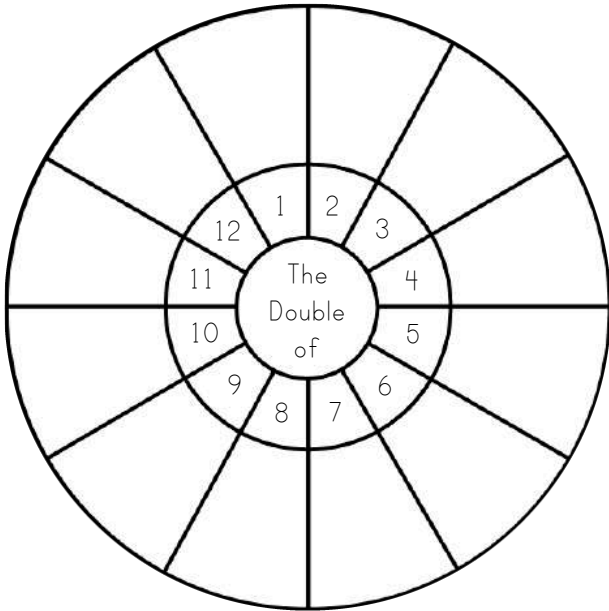






# Doubles Fun

Complete the doubles wheel:



Fill in the missing addends:

___ + ___ = 24	___ + ___ = 6
___ + ___ = 8	___ + ___ = 20
___ + ___ = 16	___ + ___ = 14
___ + ___ = 2	___ + ___ = 12
___ + ___ = 22	___ + ___ = 4
___ + ___ = 10	___ + ___ = 18

Solve the problems. Remember to show your work.

There are 12 eggs in one carton. How many eggs are in 2 cartons? How about 4 cartons?

Each truck has 4 wheels. How many wheels are on 2 trucks? How about 4 trucks?

# Extending The Doubles

We have practiced "extending" in other levels, like Plus 1, Plus 2, and Plus 3. Now let's practice extending the doubles facts!

$$4+4=8 \longrightarrow 40+40=80 \longrightarrow 400+400=800 \longrightarrow 4000+4000=8000$$

$$2+2=4 \longrightarrow 20+20=40 \longrightarrow 200+200=400 \longrightarrow 2000+2000=4000$$

Solve the equations:

$3000+3000=$  \_\_\_\_\_

$9+9=$  \_\_\_\_\_

$1000+1000=$  \_\_\_\_\_

$20+20=$  \_\_\_\_\_

$2000+2000=$  \_\_\_\_\_

$50+50=$  \_\_\_\_\_

$400+400=$  \_\_\_\_\_

$300+300=$  \_\_\_\_\_

$80+80=$  \_\_\_\_\_

$200+200=$  \_\_\_\_\_

$100+100=$  \_\_\_\_\_

$4000+4000=$  \_\_\_\_\_

Some doubles are more difficult to extend. Let's take a look:

$$8+8=16 \longrightarrow 800+800=1600$$



Think: "8 groups of 100 + 8 groups of 100 makes 16 groups of 100."

Solve the equations. Circle the ones that you find difficult.

$600+600=$  \_\_\_\_\_

$80+80=$  \_\_\_\_\_

$9+9=$  \_\_\_\_\_

$90+90=$  \_\_\_\_\_

$700+700=$  \_\_\_\_\_

$70+70=$  \_\_\_\_\_

$500+500=$  \_\_\_\_\_

$8+8=$  \_\_\_\_\_

$20+20=$  \_\_\_\_\_

# DOUBLES PRACTICE

Complete each equation:

$$500 + \underline{\quad\quad} = 1000$$

$$60 + 60 = \underline{\quad\quad}$$

$$\underline{\quad\quad} + 3000 = 6000$$

$$\underline{\quad\quad} + 10 = 20$$

$$800 + \underline{\quad\quad} = 1600$$

$$200 + \underline{\quad\quad} = 400$$

$$2000 + \underline{\quad\quad} = 4000$$

$$400 + 400 = \underline{\quad\quad}$$

$$\underline{\quad\quad} + 50 = 100$$

$$\underline{\quad\quad} + 20 = 40$$

$$1000 + \underline{\quad\quad} = 2000$$

$$70 + \underline{\quad\quad} = 140$$

$$\underline{\quad\quad} + 900 = 1800$$

$$10 + \underline{\quad\quad} = 20$$

$$100 + \underline{\quad\quad} = 200$$

$$300 + \underline{\quad\quad} = 600$$

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

$$\underline{\quad\quad} + 4000 = 8000$$

$$\underline{\quad\quad} + 30 = 60$$

$$8 + \underline{\quad\quad} = 16$$

$$900 + \underline{\quad\quad} = 1800$$

Solve the problem:

There are 4000 books in the library. The librarian, Mrs. Smith, would like to double her collection. How many books does Mrs. Smith want to have in the library altogether?

Putting It All Together:

# Bubble Gum Addition

$1000+4000=$   
\_\_\_\_\_

$3000+2=$   
\_\_\_\_\_

$2980+3=$   
\_\_\_\_\_

$30+20=$   
\_\_\_\_\_

$0+2100=$   
\_\_\_\_\_

$50+20=$   
\_\_\_\_\_

$3000+4000=$   
\_\_\_\_\_

$30+30=$   
\_\_\_\_\_

$8000+1000=$   
\_\_\_\_\_

$2000+3000=$   
\_\_\_\_\_

$3349+1=$   
\_\_\_\_\_

$700+700=$   
\_\_\_\_\_

$765+0=$   
\_\_\_\_\_

$2+459=$   
\_\_\_\_\_

$3+6874=$   
\_\_\_\_\_

$600+100=$   
\_\_\_\_\_

$40+30=$   
\_\_\_\_\_

$500+500=$   
\_\_\_\_\_

$700+200=$   
\_\_\_\_\_

$2454+1=$   
\_\_\_\_\_

$70+10=$   
\_\_\_\_\_

$3000+3000=$   
\_\_\_\_\_

$1000+2000=$   
\_\_\_\_\_

$100+500=$   
\_\_\_\_\_

$4000+4000=$   
\_\_\_\_\_

$300+200=$   
\_\_\_\_\_

$40+10=$   
\_\_\_\_\_

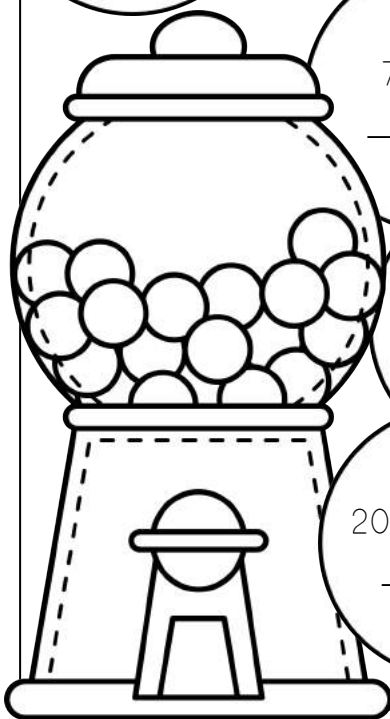
$50+30=$   
\_\_\_\_\_

$2000+4000=$   
\_\_\_\_\_

$30+90=$   
\_\_\_\_\_

$1000+2000=$   
\_\_\_\_\_

$7000+2000=$   
\_\_\_\_\_



## For the Teacher

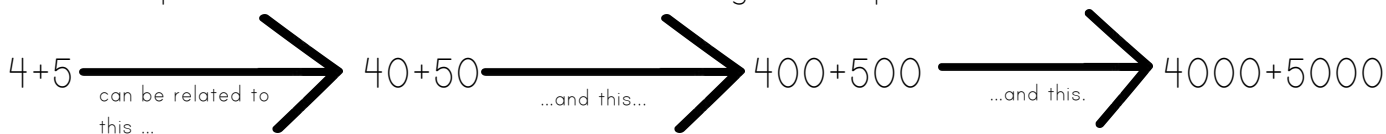
# Strategy #6: Doubles Plus One

In this section, students will practice the doubles plus one facts. Students have probably already learned this concept in other grades. However, it is important to re-teach and reinforce to ensure that all students have the chance to review and master it. In order to experience success with the doubles plus one facts, students must have mastered the doubles facts. If they have not, provide time for them to do so.

For the doubles plus one facts, students think of the double and then add one more. For example, for  $4+5$ , think: " $4+4=8$  and one more makes 9."

After this level's activities with doubles plus one facts to 12, students will use their knowledge in order to extend the doubles plus one equations to larger numbers in the 10's, 100's, and 1000's.

For example, students can relate the following four equations:



Students will not work with equations that have a sum greater than 10,000, such as  $6000+7000$ .

# The Double... Plus One More!

When you see addends that differ by 1, you can use the doubles plus one strategy.

**Example**

$3+4$

$3+4=7$

Now it's your turn!

$7+8$

$7+8=$  \_\_\_

$5+6$

$5+6=$  \_\_\_

$9+10$

$9+10=$  \_\_\_

$2+3$

$2+3=$  \_\_\_

$8+9$

$8+9=$  \_\_\_

$1+2$

$1+2=$  \_\_\_

$3+4$

$3+4=$  \_\_\_

$10+11$

$10+11=$  \_\_\_

# Let's Practice the Doubles Plus One Facts

$8+9=$  \_\_\_\_\_

$3+4=$  \_\_\_\_\_

$10+9=$  \_\_\_\_\_

$11+12=$  \_\_\_\_\_

$1+2=$  \_\_\_\_\_

$4+3=$  \_\_\_\_\_

$7+8=$  \_\_\_\_\_

$9+10=$  \_\_\_\_\_

$12+11=$  \_\_\_\_\_

$5+4=$  \_\_\_\_\_

$5+6=$  \_\_\_\_\_

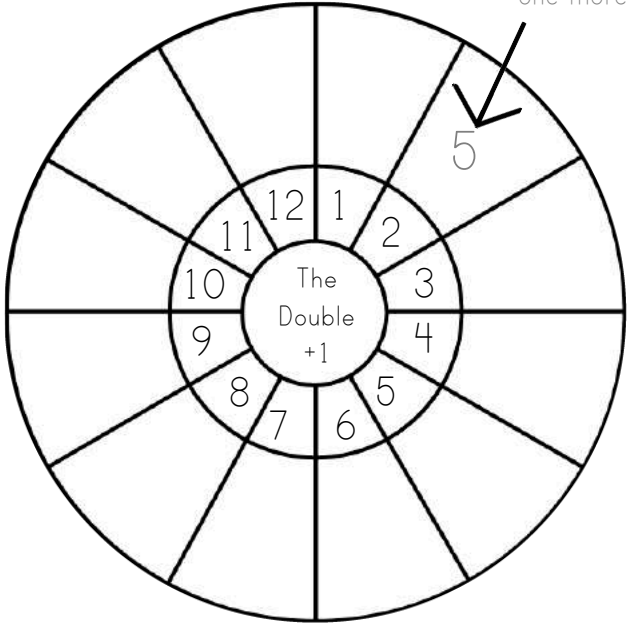
$10+11=$  \_\_\_\_\_

$9+8=$  \_\_\_\_\_

$2+3=$  \_\_\_\_\_

$8+7=$  \_\_\_\_\_

The double of 2 plus one more.



Write a story problem for the equation  $8+9$ .

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

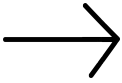
Now solve the problem:

Which doubles +1 equations do you find the most difficult?

# Extending the Doubles Plus One Facts

Just like you've learned to "extend" the other facts, now you can extend the doubles plus one facts to work with higher numbers. Try it!

Think: "2+3=5,  
so  
200+300=?"



$$200+300=$$

\_\_\_\_\_

$$9+10=$$

\_\_\_\_\_

$$3000+4000=$$

\_\_\_\_\_

$$70+80=$$

\_\_\_\_\_

$$100+200=$$

\_\_\_\_\_

$$5+6=$$

\_\_\_\_\_

$$800+900=$$

\_\_\_\_\_

$$40+50=$$

\_\_\_\_\_

$$50+60=$$

\_\_\_\_\_

$$80+90=$$

\_\_\_\_\_

$$11+12=$$

\_\_\_\_\_

$$300+400=$$

\_\_\_\_\_

$$60+70=$$

\_\_\_\_\_

$$1000+2000=$$

\_\_\_\_\_

$$400+500=$$

\_\_\_\_\_

$$8+9=$$

\_\_\_\_\_

$$4000+5000=$$

\_\_\_\_\_

$$30+40=$$

\_\_\_\_\_

$$600+700=$$

\_\_\_\_\_

$$20+30=$$

\_\_\_\_\_

$$10+11=$$

\_\_\_\_\_

$$90+100=$$

\_\_\_\_\_

$$2000+3000=$$

\_\_\_\_\_



# Choose the Strategy

Choose the best strategy for each equation.

$30+40=$  \_\_\_\_\_

Which strategy works best:  
doubles plus one or plus 3?  
\_\_\_\_\_

$2000+2000=$  \_\_\_\_\_

Which strategy works best:  
doubles or plus two?  
\_\_\_\_\_

$200+100=$  \_\_\_\_\_

Which strategy works best:  
doubles plus one or plus 2?  
\_\_\_\_\_

Explain how you solved each equation:

$9000+3000=$  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

$80+80=$  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

$10+11=$  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

$500+400=$  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Explain how the doubles plus one strategy works.

\_\_\_\_\_

\_\_\_\_\_

List 4 equations that you could use the doubles plus one strategy for:

# Put It Together Cut-and-Paste

Cut out the sums and paste them beside each equation. Use any of the strategies that you have learned so far.

$50+20=$



$300+500=$



$50+50=$



$800+100=$



$700+200=$



$50+10=$



$90+30=$



$600+600=$



$6000+3000=$



$500+200=$



$1122+0=$



$12+12=$



120



900



24



700



800



60



1122



100



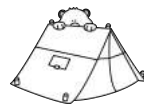
9000



1200



70



900



## For the Teacher

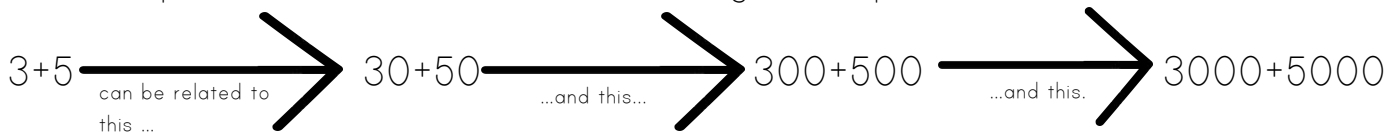
# Strategy #7: Doubles Plus Two

In this section, students will practice the doubles plus two strategy. Students have probably already learned this concept in other grades. However, it is important to re-teach and reinforce to ensure that all students have the chance to review and master it. In order to experience success with the doubles plus one facts, students must have mastered the doubles facts. If they have not, provide time for them to do so.

For the doubles plus two facts, students think of the double and then add two more. For example, for  $3+5$ , think: " $3+3=6$  and two more makes 8."

After this level's activities with doubles plus two facts to  $12+14$ , students will use their knowledge in order to extend the doubles plus two equations to larger numbers in the 10's, 100's, and 1000's.

For example, students can relate the following four equations:



Students will not work with equations that have a sum greater than 9999, such as  $5000+7000$ .

# The Double... Plus TWO More!

When you see addends that differ by 2, you can use the doubles plus two strategy.

**Example**

$5+7$

← Think: "5+5=10 and 2 more makes 12."

$5+7=12$

Now it's your turn!

$7+9$

← Think:  
"7+7=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $7+9=$ \_\_\_\_

$5+7$

← Think:  
"5+5=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $5+7=$ \_\_\_\_

$9+11$

← Think:  
"9+9=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $9+11=$ \_\_\_\_

$2+4$

← Think:  
"2+2=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $2+4=$ \_\_\_\_

$8+10$

← Think:  
"8+8=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $8+10=$ \_\_\_\_

$1+3$

← Think:  
"1+1=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $1+3=$ \_\_\_\_

$3+5$

← Think:  
"3+3=\_\_\_\_ and  
2 more makes  
\_\_\_\_."  
 $3+5=$ \_\_\_\_

$10+12$

← Think:  
"10+10=\_\_\_\_  
and 2 more  
makes \_\_\_\_."  
 $10+12=$ \_\_\_\_

# Let's Practice the Doubles Plus Two Facts

$10 + 12 = \underline{\quad}$

$1 + 3 = \underline{\quad}$

$5 + 7 = \underline{\quad}$

$3 + 5 = \underline{\quad}$

$8 + 10 = \underline{\quad}$

$6 + 8 = \underline{\quad}$

$7 + 5 = \underline{\quad}$

$4 + 6 = \underline{\quad}$

$12 + 14 = \underline{\quad}$

$9 + 11 = \underline{\quad}$

$9 + 7 = \underline{\quad}$

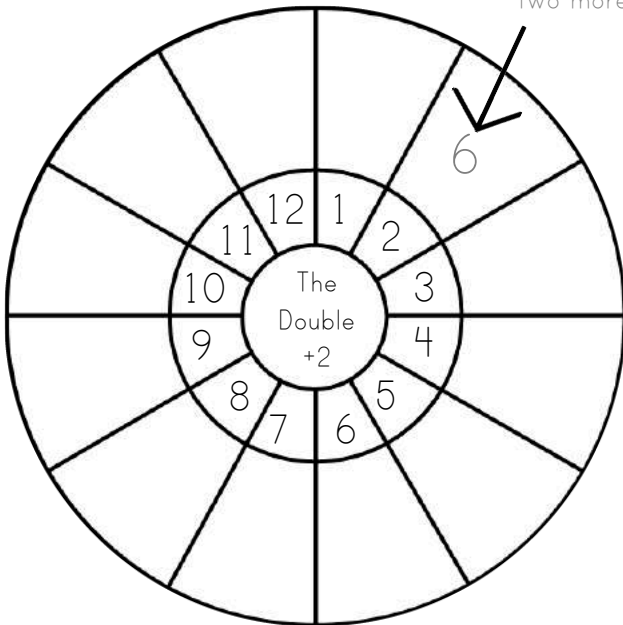
$2 + 4 = \underline{\quad}$

$11 + 13 = \underline{\quad}$

$7 + 9 = \underline{\quad}$

$6 + 4 = \underline{\quad}$

The double of 2 plus two more.



Write a story problem for the equation  $12 + 14$ .

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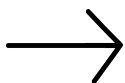
Now solve the problem:

Which doubles +2 equations do you find the most difficult?

# Extending the Doubles Plus TWO Facts

Just like you've learned to "extend" the other facts, now you can extend the doubles plus TWO facts to work with higher numbers. Try it!

Think: "3+5=8,  
so  
3000+5000=?"



$$3000+5000=$$

\_\_\_\_\_

{3 groups of 1000 + 5  
groups of 1000}

$$500+700=$$

\_\_\_\_\_

$$10+12=$$

\_\_\_\_\_

$$700+900=$$

\_\_\_\_\_

$$2000+4000=$$

\_\_\_\_\_

$$400+600=$$

\_\_\_\_\_

$$12+14=$$

\_\_\_\_\_

$$80+100=$$

\_\_\_\_\_

$$1000+3000=$$

\_\_\_\_\_

$$70+90=$$

\_\_\_\_\_

$$40+60=$$

\_\_\_\_\_

$$5000+3000=$$

\_\_\_\_\_

$$90+110=$$

\_\_\_\_\_

{Think: 9 groups of 10 + 11  
groups of 10}

$$300+500=$$

\_\_\_\_\_

$$60+80=$$

\_\_\_\_\_

$$4000+2000=$$

\_\_\_\_\_

$$600+800=$$

\_\_\_\_\_

$$100+300=$$

\_\_\_\_\_

$$11+13=$$

\_\_\_\_\_

$$200+400=$$

\_\_\_\_\_

$$500+300=$$

\_\_\_\_\_

$$800+600=$$

\_\_\_\_\_

$$9+11=$$

\_\_\_\_\_

# Effective AND Efficient

When we choose a strategy to use, it should be EFFECTIVE (works well) and EFFICIENT (it helps us get the answer quickly). Which strategy do you think is the most effective and efficient?

Explain how you would solve  $4000+2000$  using the Plus 2 strategy:

---

---

Explain how you would solve  $4000+2000$  using the Doubles Plus 2 strategy:

---

---

Which strategy is the most EFFECTIVE and EFFICIENT? \_\_\_\_\_

---

Explain how you would solve  $3000+3000$  using the Doubles strategy:

---

---

Explain how you would solve  $3000+3000$  using the Plus 3 strategy:

---

---

Which strategy is the most EFFECTIVE and EFFICIENT? \_\_\_\_\_

---

Solve these equations using the most EFFECTIVE and EFFICIENT strategy.

$600+800=$  \_\_\_\_\_

$30+10=$  \_\_\_\_\_

$700+700=$  \_\_\_\_\_

$2000+4000=$  \_\_\_\_\_

$700+200=$  \_\_\_\_\_

$20+40=$  \_\_\_\_\_

$100+300=$  \_\_\_\_\_

$4000+2000=$  \_\_\_\_\_

$500+700=$  \_\_\_\_\_

$500+500=$  \_\_\_\_\_

$300+500=$  \_\_\_\_\_

$110+90=$  \_\_\_\_\_

# Putting <sup>IT</sup> ALL Together

Use any of the strategies that you have learned to complete these activities.

Write a greater than (>), less than (<), or equal sign (=).

5000+4000 <input type="checkbox"/>	5898+2	40+50 <input type="checkbox"/>	80+10	600+600 <input type="checkbox"/>	600+700
300+300 <input type="checkbox"/>	200+400	800+800 <input type="checkbox"/>	1000+1000	60+30 <input type="checkbox"/>	40+60
4000+3000 <input type="checkbox"/>	300+400	295+3 <input type="checkbox"/>	2+297	1978+1 <input type="checkbox"/>	100+100
0+578 <input type="checkbox"/>	500+100	1000+2000 <input type="checkbox"/>	1900+1	5000+2000 <input type="checkbox"/>	3000+3000
1000+2000 <input type="checkbox"/>	2900+3	500+500 <input type="checkbox"/>	999+1	100+300 <input type="checkbox"/>	300+500

Fill in the missing number for each equation. Use any of the strategies that you have learned so far.

<div style="text-align: center;">4000</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">2000</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">7212</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> <div style="border: 1px solid black; padding: 5px;">7209</div> </div>	<div style="text-align: center;">1600</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">800</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">900</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">300</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>
<div style="text-align: center;">6000</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">2000</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">2000</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">1000</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">9900</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> <div style="border: 1px solid black; padding: 5px;">3</div> </div>	<div style="text-align: center;"> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">200</div> <div style="border: 1px solid black; padding: 5px;">900</div> </div>
<div style="text-align: center;">6579</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">0</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">9000</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">7000</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">4000</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> <div style="border: 1px solid black; padding: 5px;">3000</div> </div>	<div style="text-align: center;">1800</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">800</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>
<div style="text-align: center;">800</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">400</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>	<div style="text-align: center;">5689</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> <div style="border: 1px solid black; padding: 5px;">2</div> </div>	<div style="text-align: center;">800</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> <div style="border: 1px solid black; padding: 5px;">300</div> </div>	<div style="text-align: center;">6780</div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">3</div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> </div>



## For the Teacher

### Strategy #8: Making 10, 100, and 1000

Making Ten is all about knowing the number combinations that can be added together to make ten. Ideally, we want students to move away from “counting on” and simply KNOW the number combinations that add to ten. For example, when a student sees  $7+3$ , he could think, “7...8, 9, 10” and get the correct answer. But it is even better if he looks at  $7+3$  and automatically KNOWS that the sum is 10 without even counting on. By Grade 4, students should already know their number combinations that add to 10, but some might not have memorized them yet. It is important that students are given the time that they need to practice, as these skills will be used forever.

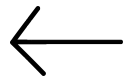
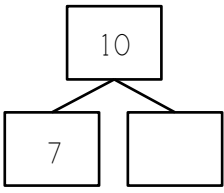
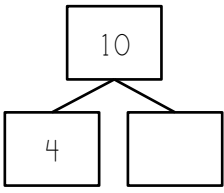
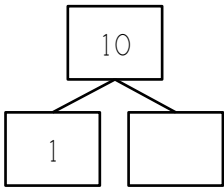
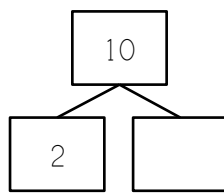
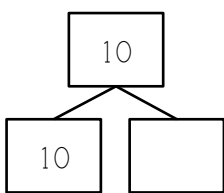
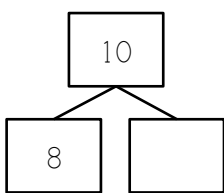
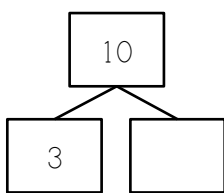
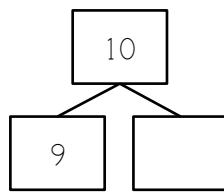
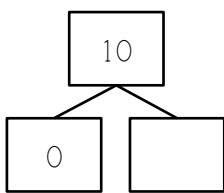
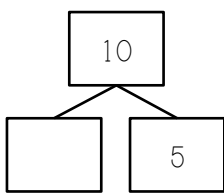
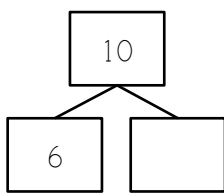
Making 100 is an extension of Making 10. When students know that  $7+3=10$ , they will learn that  $70+30=100$ .

Making 1000 is a natural extension of Making 10 and Making 100. When students know that  $7+3=10$ , they will learn that  $700+300=1000$ .

This level will provide lots of practice with these equations so that students will build automaticity with the number combinations adding to 10, 100, and 1000.

# Making TEN

Fill in the missing addend for each "Making 10" equation.



This is a group of 10. Draw ones blocks to show how you could split up this group of 10 in four different ways.

\_\_\_ + \_\_\_ = 10

\_\_\_ + \_\_\_ = 10

\_\_\_ + \_\_\_ = 10

\_\_\_ + \_\_\_ = 10

# Making 100

Now that you know the number combinations that add to 10, you can use similar combinations to make 100!

**EXAMPLE**

$7+3=10$	$\longrightarrow$	$70+30=100$
$\uparrow$		$\uparrow$
7 ones + 3 ones		7 groups of 10 + 3 groups of 10

Try it!

$3+7=$  \_\_\_\_\_  $\longrightarrow$   $30+70=$  \_\_\_\_\_

$5+5=$  \_\_\_\_\_  $\longrightarrow$   $50+50=$  \_\_\_\_\_

$8+2=$  \_\_\_\_\_  $\longrightarrow$   $80+20=$  \_\_\_\_\_

$4+6=$  \_\_\_\_\_  $\longrightarrow$   $40+60=$  \_\_\_\_\_

$9+1=$  \_\_\_\_\_  $\longrightarrow$   $90+10=$  \_\_\_\_\_

$2+8=$  \_\_\_\_\_  $\longrightarrow$   $20+80=$  \_\_\_\_\_

Fill in the unknown numbers:

$1+9=$  \_\_\_\_\_

$0+10=$  \_\_\_\_\_

$80+$  \_\_\_\_\_  $=100$

$20+$  \_\_\_\_\_  $=100$

\_\_\_\_\_  $+6=10$

\_\_\_\_\_  $+7=10$

$50+50=$  \_\_\_\_\_

$100+0=$  \_\_\_\_\_

$7+$  \_\_\_\_\_  $=10$

$5+$  \_\_\_\_\_  $=10$

\_\_\_\_\_  $+40=100$

\_\_\_\_\_  $+8=10$

$30+70=$  \_\_\_\_\_

$90+10=$  \_\_\_\_\_

$8+$  \_\_\_\_\_  $=10$

$40+$  \_\_\_\_\_  $=100$

\_\_\_\_\_  $+4=10$

\_\_\_\_\_  $+90=100$

\_\_\_\_\_  $+30=100$

\_\_\_\_\_  $+100=100$

Dan and Fran went camping. It took them 20 minutes to set up their tent, and 80 minutes to make supper. Altogether, how many minutes did it take them to set up their tent and make supper?

Altogether there are 100 people at the football game. 30 of them are parents and the rest are kids. How many kids are at the football game?

# Making 1000

Now that you have practiced the number combinations that add to 10 and 100, you can use similar combinations to make 1000!

**EXAMPLE**

	$7+3=10$	$\longrightarrow$	$70+30=100$	$\longrightarrow$	$700+300=1000$
	$\uparrow$		$\uparrow$		$\uparrow$
	7 ones + 3 ones		7 groups of 10 + 3 groups of 10		7 groups of 100 + 3 groups of 100

Try it!

$200 + \underline{\quad} = 1000$

$600 + \underline{\quad} = 1000$

$700 + \underline{\quad} = 1000$

$0 + \underline{\quad} = 1000$

$100 + \underline{\quad} = 1000$

$800 + \underline{\quad} = 1000$

$500 + \underline{\quad} = 1000$

$400 + \underline{\quad} = 1000$

$300 + \underline{\quad} = 1000$

Fill in the unknown numbers:

$10 + 90 = \underline{\quad}$

$900 + \underline{\quad} = 1000$

$800 + \underline{\quad} = 1000$

$\underline{\quad} + 0 = 1000$

$\underline{\quad} + 60 = 100$

$30 + 70 = \underline{\quad}$

$50 + 50 = \underline{\quad}$

$100 + \underline{\quad} = 1000$

$700 + \underline{\quad} = 1000$

$\underline{\quad} + 80 = 100$

$\underline{\quad} + 4 = 10$

$5 + 5 = \underline{\quad}$

$300 + 700 = \underline{\quad}$

$80 + \underline{\quad} = 100$

$8 + \underline{\quad} = 10$

$\underline{\quad} + 30 = 100$

$\underline{\quad} + 8 = 10$

$\underline{\quad} + 400 = 1000$

$\underline{\quad} + 30 = 100$

$90 + 10 = \underline{\quad}$

$\underline{\quad} + 500 = 1000$

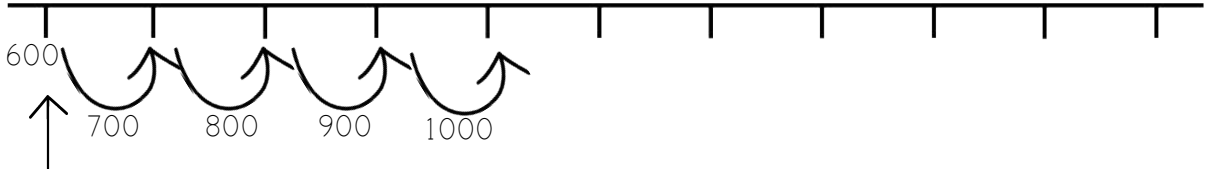
$400 + \underline{\quad} = 1000$

Altogether, Adam and Josh have 1000 pennies in their collections. Josh has 200 more than Adam. How many pennies does Josh have? How about Adam?

Harriet needs to practice piano for 100 minutes this week. She practiced for 30 minutes on Monday and 30 minutes on Tuesday. How many more minutes does she need to practice for this week?

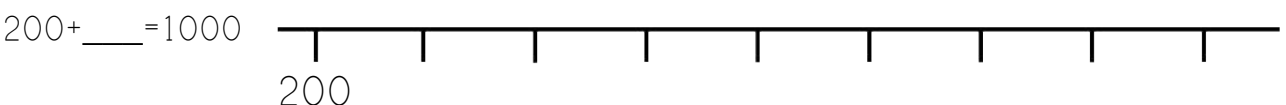
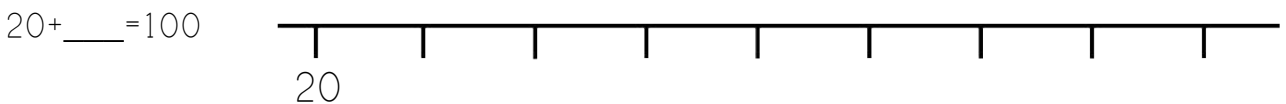
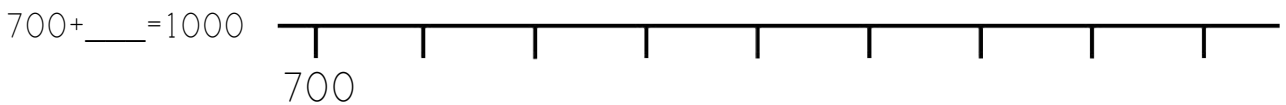
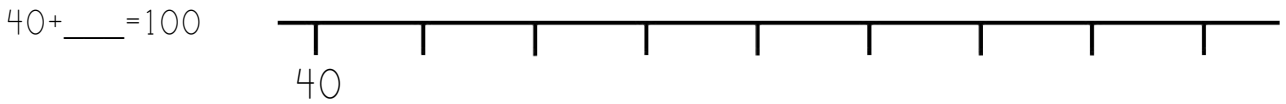
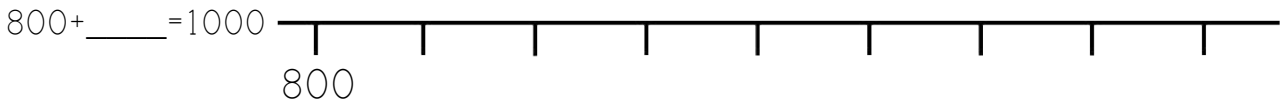
# Use an Empty Number Line

You can use an empty number line to help you make 100 or 1000. Let's try it for  $600 + \underline{\quad} = 1000$ .



Write, "600." Then jump until you get to 1000. That's 4 jumps.  $600 + 400 = 1000$

Use the number lines to make 100 or 1000.



# Problem-Solving with 100 and 1000

There are 1000 lockers in the school. 200 of them are blue. 500 are red. The rest are brown. How many of the lockers are brown?

Show your work.

Grandma turned 100 years old today! For the first 20 years of her life, she lived in Australia. Then she lived in the USA for 10 years. For the rest of her life she lived in England. For how many years did she live in England?

Show your work.

It takes 1000 pennies to make \$10.00. Dexter has 100 pennies. His sister has 300 pennies. How many more pennies do they need to make \$10.00?

Show your work.

# Putting It All Together

Solve the equations using any of the strategies that you have learned so far. If the sum is EVEN, shade the box green. If the sum is ODD, shade the box blue.

$900+900=$   
 \_\_\_\_\_

$2349+2=$   
 \_\_\_\_\_

$1118+3=$   
 \_\_\_\_\_

$2000+2000=$   
 \_\_\_\_\_

$300+100=$   
 \_\_\_\_\_

$600+800=$   
 \_\_\_\_\_

$400+200=$   
 \_\_\_\_\_

$1000+8000=$   
 \_\_\_\_\_

$4000+4000=$   
 \_\_\_\_\_

$3000+6000=$   
 \_\_\_\_\_

$1489+0=$   
 \_\_\_\_\_

$12+13=$   
 \_\_\_\_\_

$2000+6000=$   
 \_\_\_\_\_

$2000+4000=$   
 \_\_\_\_\_

$800+800=$   
 \_\_\_\_\_

$600+400=$   
 \_\_\_\_\_

$800+300=$   
 \_\_\_\_\_

$70+30=$   
 \_\_\_\_\_

$5090+3=$   
 \_\_\_\_\_

Let's put it  
all together!

$12+12=$   
 \_\_\_\_\_

$500+500=$   
 \_\_\_\_\_

$3000+4000=$   
 \_\_\_\_\_



# Bonus Activity - Teacher Instructions

Include this activity at the end of Level 8 in your Addition Station.

This activity integrates the strategies that students have already learned: +0, +1, +2, and +3, Doubles, Doubles +1, Doubles +2, and Making 10/100/1000.

## Overview:

In this Bonus Activity, students choose a task card, add the numbers, and record the equations in their notebook or on the recording sheet.

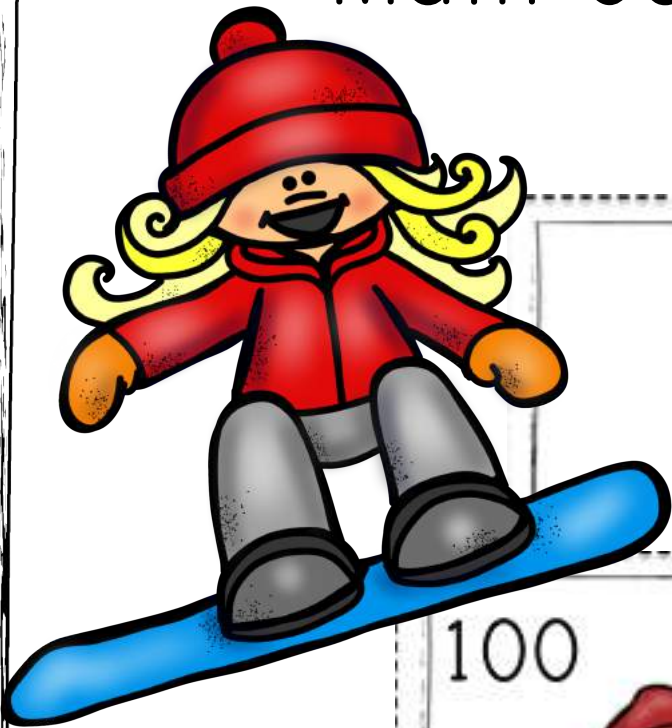
## Preparation:

- Print and laminate task cards.
- Make copies of recording sheets (you may wish to have students record the answers in their notebooks instead).
- To set these up, I typically cut out the title and directions and paste them on either side of a piece of cereal box cardboard. I store the center pieces in small re-sealable bags, and then keep everything in a large re-sealable bag. I've made a video showing how I make and store the center pieces that you can watch by clicking here:

<https://www.youtube.com/watch?v=Z4EKxxCYnjo&feature=youtu.be>



# Winter Fun Addition Math Center



$$60 + 40$$

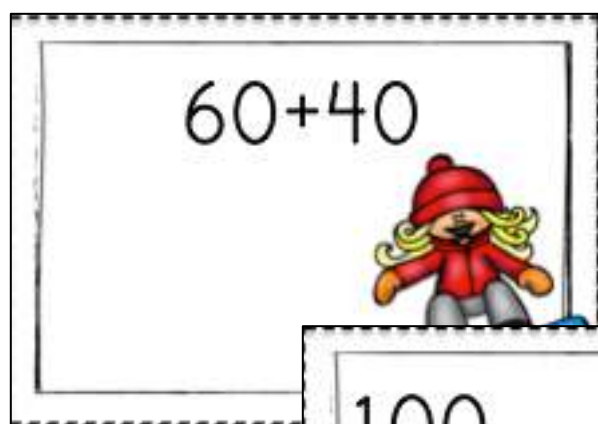


100



# Directions

Choose a snowboarding card. Read the equation and find the matching sum on a tubing card. Place the two cards together and record the equations on the recording sheet.



$1199+0$



$9789+1$



$80+10$



$900+100$



$5000+1000$



$3408+2$



$90+20$



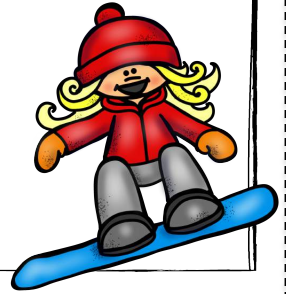
$400+200$



$3000+2000$



$1919+3$



$500+300$



$2000+3000$



$12+12$



$70+70$



$900+900$



$4000+4000$



$500+600$



$3000+4000$



$2000+4000$



$700+900$



$60+40$



$30+70$



$900+100$



$500+500$



1199



9790



90



1000



6000



3410



110



600



5000



1922



800



5000



24



140



1800



8000



1100



7000



6000



1600



100



100



1000



1000







## For the Teacher

### Strategy #9: Adding 10's and 100's

In this level, students will learn how to add 10 and 100 (and multiples of 10 and 100) to a number, with sums to 9999. Students will use place value understanding when learning this concept.

For example, in the equation  $1245+20$ , students will learn that they simply add 2 more groups of 10 to the tens place. For an equation like  $4330+300$ , they will add 3 more groups of 100 to the hundreds place.

# Adding 10's and 100's

Thousands	Hundred s	Tens	Ones
3	4	7	3

**3473+20=** \_\_\_\_\_

Thousands	Hundreds	Tens	Ones
3	4	9	3

This shows 3 thousands, 4 hundreds, 7 tens and 3 ones.

When we add 20...

...we just add two more groups of 10 to the tens place. So in this example, we now have 3 thousands, 4 hundreds, 9 groups of 10, and 3 ones.

Use the number charts to add the 10's or 100's to each number.

Th	H	T	O
2	7	4	2

+30=

Th	H	T	O

2742+30=\_\_\_\_\_

Th	H	T	O
3	7	1	3

+200=

Th	H	T	O

3713+200=\_\_\_\_\_

Th	H	T	O
1	9	0	8

+80=

Th	H	T	O

1908+80=\_\_\_\_\_

Th	H	T	O
2	1	3	9

+500=

Th	H	T	O

2139+500=\_\_\_\_\_

Th	H	T	O
5	5	0	8

+60=

Th	H	T	O

5508+60=\_\_\_\_\_

Th	H	T	O
8	4	1	1

+100=

Th	H	T	O

8411+100=\_\_\_\_\_

Th	H	T	O
2	4	2	1

+60=

Th	H	T	O

2421+60=\_\_\_\_\_

Th	H	T	O
	6	0	9

+3000=

Th	H	T	O

609+3000=\_\_\_\_\_

# Let's Add 10's and 100's

Solve the equations. Remember that order of addends doesn't matter.

$4902 + 10 = \underline{\hspace{2cm}}$

$849 + 40 = \underline{\hspace{2cm}}$

$100 + 2807 = \underline{\hspace{2cm}}$

$10 + 356 = \underline{\hspace{2cm}}$

$1110 + 400 = \underline{\hspace{2cm}}$

$4982 + 10 = \underline{\hspace{2cm}}$

$1916 + 30 = \underline{\hspace{2cm}}$

$100 + 238 = \underline{\hspace{2cm}}$

$3829 + 100 = \underline{\hspace{2cm}}$

$59 + 20 = \underline{\hspace{2cm}}$

$300 + 2590 = \underline{\hspace{2cm}}$

$1824 + 50 = \underline{\hspace{2cm}}$

$8415 + 100 = \underline{\hspace{2cm}}$

$302 + 30 = \underline{\hspace{2cm}}$

$9000 + 80 = \underline{\hspace{2cm}}$

$100 + 1440 = \underline{\hspace{2cm}}$

$200 + 345 = \underline{\hspace{2cm}}$

$500 + 6161 = \underline{\hspace{2cm}}$

$490 + 300 = \underline{\hspace{2cm}}$

$45 + 300 = \underline{\hspace{2cm}}$

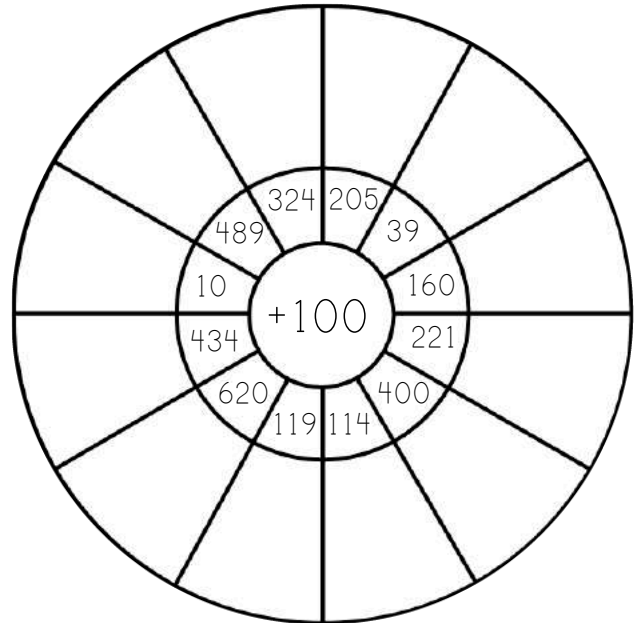
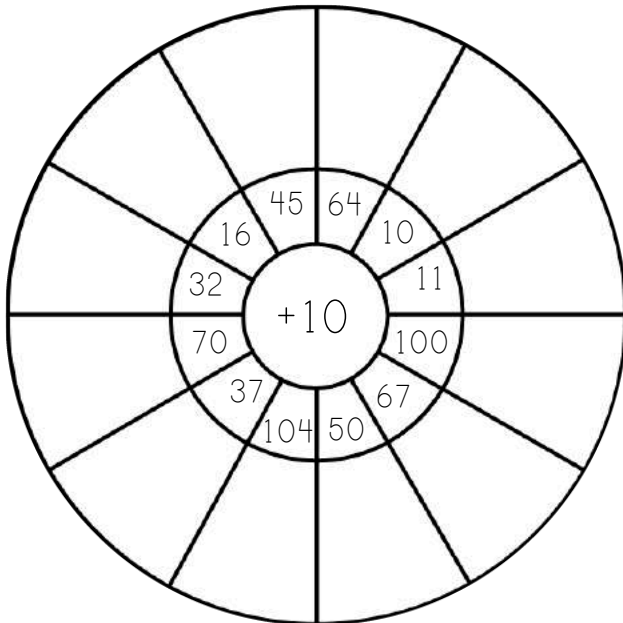
$80 + 8006 = \underline{\hspace{2cm}}$

$20 + 3158 = \underline{\hspace{2cm}}$

$560 + 30 = \underline{\hspace{2cm}}$

$756 + 20 = \underline{\hspace{2cm}}$

Complete the +10 and +100 Wheels:



Write and solve three +300 equations:

$\underline{\hspace{2cm}} + 300 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} + 300 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} + 300 = \underline{\hspace{2cm}}$

# Adding 10's and 100's **WITH REGROUPING**

Thousands	Hundred s	Tens	Ones
1	5	8	1

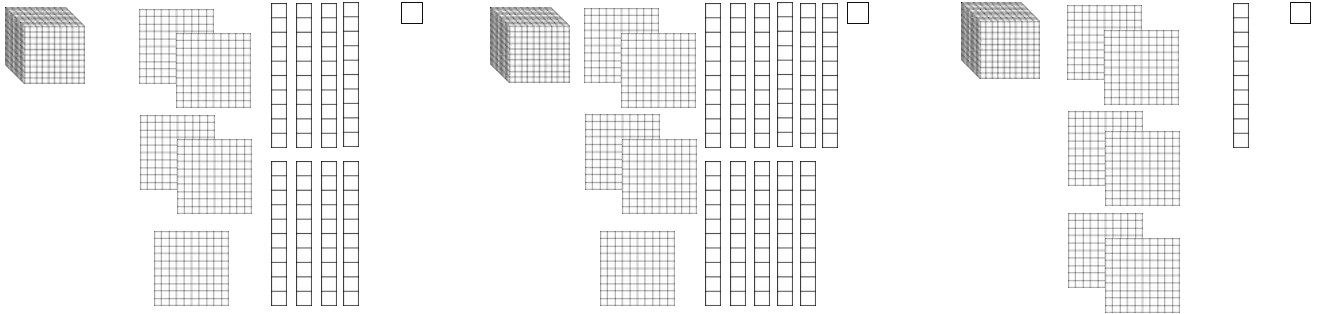
+30

Thousands	Hundred s	Tens	Ones
1	6	1	1

This shows 1 thousand, 5 hundreds, 8 tens and 1 one.

When we add 30, we end up with 11 groups of 10 in the tens column.

10 groups of 10 makes 100, so we take 10 tens and add 1 to the hundreds place. We still have 1 group of 10 leftover for the tens place.



Use the number charts to add the 10's or 100's to each number. Remember to regroup!

Th	H	T	O
1	4	5	6

+60=

Th	H	T	O

1456+60=\_\_\_\_\_

Th	H	T	O
3	0	4	2

+90=

Th	H	T	O

3042+90=\_\_\_\_\_

Th	H	T	O
8	6	1	2

+50=

Th	H	T	O

8612+50=\_\_\_\_\_

Th	H	T	O
8	2	0	9

+800=

Th	H	T	O

8209+800=\_\_\_\_\_

Th	H	T	O
4	9	2	0

+200=

Th	H	T	O

4920+200=\_\_\_\_\_

Th	H	T	O
1	2	8	2

+40=

Th	H	T	O

1282+40=\_\_\_\_\_

# PRACTICING WITH 10'S AND 100'S

Let's practice adding groups of 10 and 100. Remember to regroup where you need to.

$1893+200=$  \_\_\_\_\_

$2782+200=$  \_\_\_\_\_

$5624+100=$  \_\_\_\_\_

$4820+60=$  \_\_\_\_\_

$1187+700=$  \_\_\_\_\_

$3498+20=$  \_\_\_\_\_

$657+400=$  \_\_\_\_\_

$4598+20=$  \_\_\_\_\_

$2000+400=$  \_\_\_\_\_

Fill in the unknowns:

$8749+40=$  \_\_\_\_\_

$800+$  \_\_\_\_\_  $=3932$

$_____+60=4590$

$2423+60=$  \_\_\_\_\_

$700+$  \_\_\_\_\_  $=1981$

$_____+3459=3559$

$6902+80=$  \_\_\_\_\_

$70+$  \_\_\_\_\_  $=1270$

$_____+40=3469$

$_____+300=3837$

$5482+40=$  \_\_\_\_\_

$1002+700=$  \_\_\_\_\_

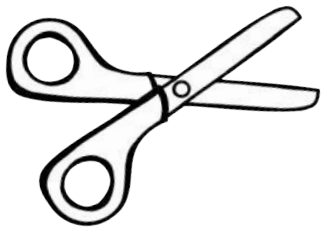
$4503+$  \_\_\_\_\_  $=5003$

$_____+60=1710$

$3892+400=$  \_\_\_\_\_

Maggie was born in 1980. What year will it be when she is 50 years old?

So far the family has travelled for 2000 kilometers. They still have 2346 kilometers to go. In all, how many kilometers will they be travelling?



# Graph It!

Cut out each equation. Paste it onto the graph.

Sums between 0 and 1999	Sums between 2000 and 3999	Sums between 4000 and 5999	Sums between 6000 and 7999	Sums between 8000 and 9999

Sum



$2490+300$	$60+60$	$4000+5000$	$459+100$	$6700+400$
$600+100$	$600+400$	$7890+0$	$3000+5000$	$2000+2000$
$3493+30$	$400+400$	$4020+800$	$3391+300$	$1200+1200$

## For the Teacher

### Strategy #10: Plus Seven, Eight, and Nine

Now that students have learned how to add ten and multiples of ten to a number, they will practice the Plus Eight and Nine strategy from previous grade levels.

In this Addition Station this concept is also extended to include plus 7's.

Students will be working with 2, 3, and 4 digit numbers ending in 7, 8, or 9. They will be adding a 1-digit number.

To practice this concept, students learn to manipulate numbers in order to form a more manageable equation. For example, in the equation  $218+6$ , students could take 2 away from the 6 and give it to the 218 to make an even 220. Now students can solve the equation  $220+4$ , which is much easier.

Once students learn the art of number manipulation to make an equation easier, you may notice that some of your students begin to manipulate the numbers in other ways as well, in order to make an equation easier to solve. This is wonderful! Flexible thinking is a big goal of mental math.



# USING TENS

## To Add 7, 8, and 9

Friendly numbers are numbers that are easy to work with. Numbers like 10, 20, 50, 100, and 200 are friendly numbers.

**Step 1:** Let's take 2 away from the 6 and give it to the 58 to make a "friendly number."

**Step 2:** Now we have an easier equation to solve!  $60 + 4 = \underline{\quad}$

$$147 + 9 = \underline{\quad}$$

**Step 1:** Take 3 away from the 9 and give it to the 147 to make a friendly number.

**Step 2:** Now we have an easier equation to solve:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

$$228 + 5 = \underline{\quad}$$

**Step 1:** Take 2 away from the 5 and give it to the 228 to make a friendly number.

**Step 2:** Now we have an easier equation to solve:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

$$3149 + 6 = \underline{\quad}$$

**Step 1:** Take 1 away from the 6 and give it to the 3149 to make a friendly number.

**Step 2:** Now we have an easier equation to solve:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

On a scale of 1-3, how well do you understand this strategy? (1 means you don't understand it, 2 means you "kind of" understand it but still need more practice, 3 means you understand it really well.)

# LET'S KEEP PRACTICING!

$2378+11=$  \_\_\_\_\_

Step 1: Take 2 away from the 11 and give it to the 2378 to make a friendly number.

Step 2: Now we have an easier equation to solve: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$1818+12=$  \_\_\_\_\_

Step 1: Take 2 away from the 12 and give it to the 1818 to make a friendly number.

Step 2: Now we have an easier equation to solve: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$777+9=$  \_\_\_\_\_

Step 1: Take 3 away from the 9 and give it to the 777 to make a friendly number.

Step 2: Now we have an easier equation to solve: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$129+7=$  \_\_\_\_\_

Step 1: Take 1 away from the 7 and give it to the 129 to make a friendly number.

Step 2: Now we have an easier equation to solve: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$3207+11=$  \_\_\_\_\_

Step 1: Take 3 away from the 11 and give it to the 3207 to make a friendly number.

Step 2: Now we have an easier equation to solve: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

# Let's Add 7, 8, and 9!

Solve the +7, +8, and +9 equations using the strategy that you learned. Use some real base 10 blocks if that makes it easier for you. Remember that order doesn't matter! So an equation like  $5+8$  is the same as  $8+5$ ; either one can be solved using the plus 8 strategy!

\*Do you need to move any numbers around for this one?

$349+5=$   
 \_\_\_\_\_

$648+7=$   
 \_\_\_\_\_

$289+11=$   
 \_\_\_\_\_

$27+6=$   
 \_\_\_\_\_

$219+10=$   
 \_\_\_\_\_

$988+7=$   
 \_\_\_\_\_

$857+8=$   
 \_\_\_\_\_

$267+12=$   
 \_\_\_\_\_

$398+5=$   
 \_\_\_\_\_

$457+5=$   
 \_\_\_\_\_

$118+9=$   
 \_\_\_\_\_

$239+11=$   
 \_\_\_\_\_

$528+9=$   
 \_\_\_\_\_

$117+6=$   
 \_\_\_\_\_

$767+4=$   
 \_\_\_\_\_

$228+5=$   
 \_\_\_\_\_

$909+6=$   
 \_\_\_\_\_

$127+7=$   
 \_\_\_\_\_

$367+4=$   
 \_\_\_\_\_

$189+9=$   
 \_\_\_\_\_

$578+6=$   
 \_\_\_\_\_

$147+9=$   
 \_\_\_\_\_

$138+6=$   
 \_\_\_\_\_

$87+12=$   
 \_\_\_\_\_

$9+6=$   
 \_\_\_\_\_

$29+11=$   
 \_\_\_\_\_

$578+4=$   
 \_\_\_\_\_

$578+8=$   
 \_\_\_\_\_

$149+4=$   
 \_\_\_\_\_

$557+7=$   
 \_\_\_\_\_

$899+6=$   
 \_\_\_\_\_

$218+9=$   
 \_\_\_\_\_

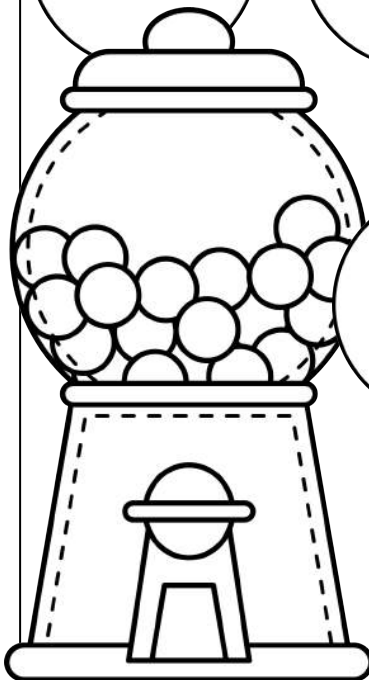
$417+6=$   
 \_\_\_\_\_

$268+4=$   
 \_\_\_\_\_

$208+5=$   
 \_\_\_\_\_

$698+4=$   
 \_\_\_\_\_

$557+5=$   
 \_\_\_\_\_



# Add It Up!

Fill in the missing numbers on the t-charts. Use the strategy that you learned for +7, +8 and +9.

+7		+8		+9	
249	256	247	255	288	297
1178		60		18	
456		2779		199	
22		59		2679	
189		1190		2278	
277		268		17	
300		1257		2777	
11		6789		3009	
798		256		458	
6009		1188		2167	
2890		3909		38	
367		58		9	
1788		20		1907	

This month, Matthew worked for 119 hours. On the weekend he worked for 12 more hours. Altogether, how many hours did he work for?

Show your work.

Write an answer sentence.

**OUTER SPACE ADDITION**

Use any of the strategies that you have learned so far to solve these equations:

$6981+0=$

$200+800=$

$765+200=$

$1154+30=$

$900+100=$

$600+400=$

$12+14=$

$1277+9=$

$800+800=$

$700+200=$

$4000+4000=$

$529+11=$

$30+10=$

$2578+20=$

$178+8=$

$600+100=$

$3000+3000=$

$1472+400=$

$500+500=$

$499+4=$

$5000+3000=$

$457+200=$

$200+800=$

$10+1111=$

$67+7=$

$900+300=$

$900+900=$

$500+6339=$

$878+11=$

$3000+6000=$

$5609+90=$

$258+30=$

## Strategy #11: Adding 1000's

By this time, students have had practice adding 10 and 100 (and multiples) to numbers with sums to 9999. In this level, students will learn how to add 1000 and multiples of 1000 with sums to 9999. Once again, students will use place value understanding when learning this concept.

# Adding 1000's

Thousands	Hundred s	Tens	Ones
5	3	0	9

**5309+1000=\_\_\_\_\_**

Thousands	Hundreds	Tens	Ones
6	3	0	9

This shows 5 thousands, 3 hundreds, 0 tens and 9 ones.

When we add 1000...

...we just add one more group of 1000 to the thousands place. So in this example, we now have 6 thousands, 3 hundreds, 0 groups of 10, and 9 ones.

Use the number charts to add 1000 or a multiple of 1000 to each number.

Th	H	T	O
2	7	4	2

+2000=

Th	H	T	O

2742+2000=\_\_\_\_\_

Th	H	T	O
3	5	0	3

+2000=

Th	H	T	O

3503+2000=\_\_\_\_\_

Th	H	T	O
7	1	1	4

+1000=

Th	H	T	O

7114+1000=\_\_\_\_\_

Th	H	T	O
3	0	9	0

+4000=

Th	H	T	O

3090+4000=\_\_\_\_\_

Th	H	T	O
	6	1	4

+7000=

Th	H	T	O

614+7000=\_\_\_\_\_

Th	H	T	O
1	5	9	8

+4000=

Th	H	T	O

1598+4000=\_\_\_\_\_

Th	H	T	O
6	0	0	9

+1000=

Th	H	T	O

6009+1000=\_\_\_\_\_

Th	H	T	O
2	6	0	0

+5000=

Th	H	T	O

2600+5000=\_\_\_\_\_

# Let's Add Thousands!

Solve the Plus 1000 equations. Remember that the order of the addends doesn't matter.

$4561 + 2000 = \underline{\hspace{2cm}}$

$2598 + 2000 = \underline{\hspace{2cm}}$

$2590 + 2000 = \underline{\hspace{2cm}}$

$1000 + 2300 = \underline{\hspace{2cm}}$

$1000 + 1888 = \underline{\hspace{2cm}}$

$1000 + 2576 = \underline{\hspace{2cm}}$

$1578 + 3000 = \underline{\hspace{2cm}}$

$2745 + 3000 = \underline{\hspace{2cm}}$

$3000 + 3000 = \underline{\hspace{2cm}}$

$2587 + 4000 = \underline{\hspace{2cm}}$

$4812 + 4000 = \underline{\hspace{2cm}}$

$1257 + 4000 = \underline{\hspace{2cm}}$

$1919 + 1000 = \underline{\hspace{2cm}}$

$7600 + 1000 = \underline{\hspace{2cm}}$

$7529 + 1000 = \underline{\hspace{2cm}}$

$6000 + 2376 = \underline{\hspace{2cm}}$

$6000 + 2699 = \underline{\hspace{2cm}}$

$6000 + 125 = \underline{\hspace{2cm}}$

$2000 + 300 = \underline{\hspace{2cm}}$

$2000 + 100 = \underline{\hspace{2cm}}$

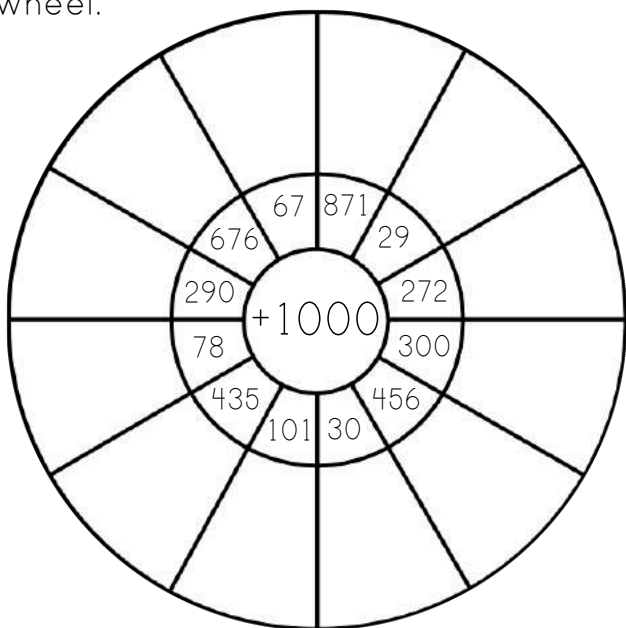
$2000 + 2444 = \underline{\hspace{2cm}}$

$5000 + 1982 = \underline{\hspace{2cm}}$

$5000 + 360 = \underline{\hspace{2cm}}$

$5000 + 4010 = \underline{\hspace{2cm}}$

Add 1000 to each number on the wheel.



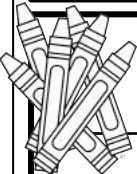
1000 kids are expected to attend the magic show. There will also be 890 adults. How many people will attend the magic show in all?



# MISSING ADDENDS

Use any of the strategies that you have learned so far to solve the equations below.

$\begin{array}{c} \boxed{1281} \\ \swarrow \quad \searrow \\ \boxed{1278} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{3009} \\ \swarrow \quad \searrow \\ \boxed{\phantom{000}} \quad \boxed{3009} \end{array}$	$\begin{array}{c} \boxed{9000} \\ \swarrow \quad \searrow \\ \boxed{5000} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{8000} \\ \swarrow \quad \searrow \\ \boxed{1000} \quad \boxed{\phantom{000}} \end{array}$
$\begin{array}{c} \boxed{9689} \\ \swarrow \quad \searrow \\ \boxed{9189} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{1700} \\ \swarrow \quad \searrow \\ \boxed{800} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{1800} \\ \swarrow \quad \searrow \\ \boxed{900} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{357} \\ \swarrow \quad \searrow \\ \boxed{348} \quad \boxed{\phantom{000}} \end{array}$
$\begin{array}{c} \boxed{100} \\ \swarrow \quad \searrow \\ \boxed{70} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{1723} \\ \swarrow \quad \searrow \\ \boxed{\phantom{000}} \quad \boxed{800} \end{array}$	$\begin{array}{c} \boxed{3487} \\ \swarrow \quad \searrow \\ \boxed{3387} \quad \boxed{\phantom{000}} \end{array}$	$\begin{array}{c} \boxed{4356} \\ \swarrow \quad \searrow \\ \boxed{2000} \quad \boxed{\phantom{000}} \end{array}$



Find the sums for the equations below. Then shade in the sum on the number chart.

8789	7500	1410	338
100	1400	1500	999
4290	680	7789	100
4209	700	500	209
1000	2405	690	5000

- |                    |                    |
|--------------------|--------------------|
| $600+800=$ _____   | $327+11=$ _____    |
| $70+30=$ _____     | $4500+3000=$ _____ |
| $2399+6=$ _____    | $300+200=$ _____   |
| $3000+1290=$ _____ | $6789+1000=$ _____ |
| $800+200=$ _____   | $650+40=$ _____    |

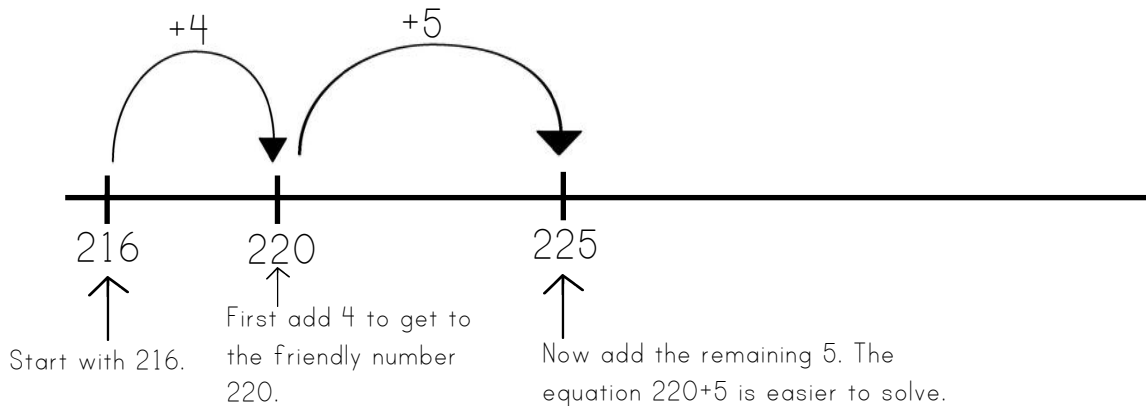
Write equations for one of the sums that is not shaded yet: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

## For the Teacher

# Strategy #12: Using Friendly Numbers

In this level, students will learn a “bridging” technique that will be useful to them for the rest of their lives. It involves using a multiple of 10 or 100 in order to make an equation easier to solve.

For example, when a student is presented with an equation such as  $216+9$ , he can process the equation in this way:



This strategy will reinforce flexible thinking, and further encourage students to manipulate equations in order to make them easier to solve.

In the Grade 4 Addition Station, students will practice this strategy with  $3/4$  digit +  $1/2$  digit equations.

# Let's Make FRIENDLY NUMBERS

A friendly number is a number that is easy to work with. Numbers that end in 0, such as 10, 20, 30, 100, 120, 190, and 200 and are friendly numbers. Let's try making some friendly numbers:

208

I can make this into the friendly number 210 by adding 2.

455

I can make this into the friendly number 460 by adding \_\_\_\_.

35

I can make this into the friendly number 40 by adding \_\_\_\_.

1579

I can make this into the friendly number 1580 by adding \_\_\_\_.

506

I can make this into the friendly number 510 by adding \_\_\_\_.

2245

I can make this into the friendly number 2250 by adding \_\_\_\_.

513

I can make this into the friendly number 520 by adding \_\_\_\_.

1177

I can make this into the friendly number 1180 by adding \_\_\_\_.

998

I can make this into the friendly number 1000 by adding \_\_\_\_.

7645

I can make this into the friendly number 7650 by adding \_\_\_\_.

1299

I can make this into the friendly number 1300 by adding \_\_\_\_.

64

I can make this into the friendly number 70 by adding \_\_\_\_.

146

I can make this into the friendly number 150 by adding \_\_\_\_.

104

I can make this into the friendly number 110 by adding \_\_\_\_.

347

I can make this into the friendly number 350 by adding \_\_\_\_.

# Using Friendly Numbers to Add Multi-Digit Numbers

We can use friendly numbers to make it easier to add two numbers. Take a look!

$216 + 9$

Start with 216.

First add 4 to get to the friendly number 220.

Now add the remaining 5. The equation  $220 + 5$  is easier to solve.

Now you try!

$115 + 7$

Start with 115.

First add \_\_\_ to get to the friendly number 120.

Now add the remaining 2. The equation  $120 + 2$  is much easier to solve!

$2217 + 9$

Start with 2217.

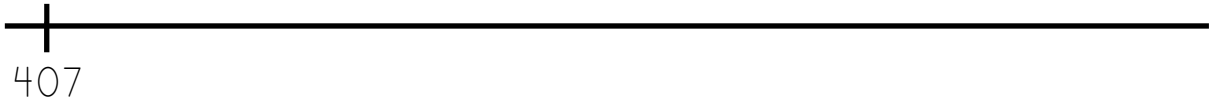
First add \_\_\_ to get to the friendly number 2220.

Now add the remaining 6. The equation  $2220 + 6$  is much easier to solve!

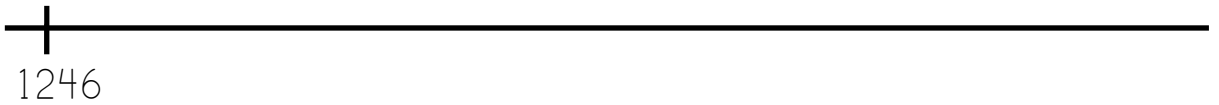
Practicing With  
FRIENDLY NUMBERS

Use the empty number lines to solve each equation. Remember to jump to a friendly number first, and then complete the equation.

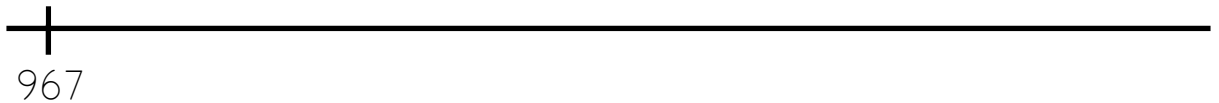
$407+7$



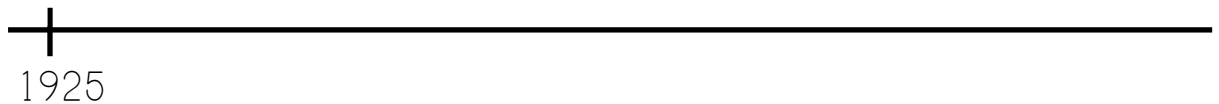
$1246+6$



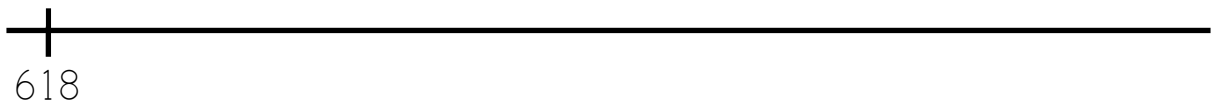
$967+5$



$1925+9$



$618+8$



Let's Make  
**FRIENDLY NUMBERS**

Solve the equations below. If you need to draw yourself a number line, make a small one in the box. If you can use the "friendly number" strategy in your head without the number line, go ahead!

$1217+4=$  \_\_\_\_\_

$278+6=$  \_\_\_\_\_

$1582+9=$  \_\_\_\_\_

$118+6=$  \_\_\_\_\_

$456+6=$  \_\_\_\_\_

$736+8=$  \_\_\_\_\_

$545+9=$  \_\_\_\_\_

$207+7=$  \_\_\_\_\_

$1259+6=$  \_\_\_\_\_

$5896+5=$  \_\_\_\_\_

$4008+7=$  \_\_\_\_\_

$577+7=$  \_\_\_\_\_

# Putting It All Together

Use any of the strategies that you have learned so far.

+1000		+100		+9	
2315	3315	3249	3349	48	57
8760		146		118	
8000		2572		369	
1179		144		78	
2541		7769		377	
6090		9876		219	

Write 5 equations that equal 1000:

\_\_\_\_\_ + \_\_\_\_\_ = 1000

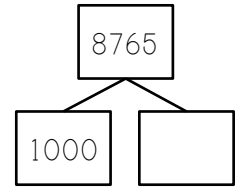
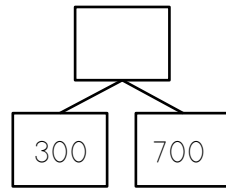
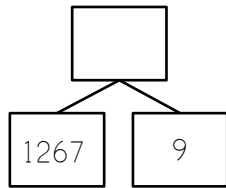
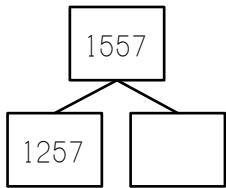
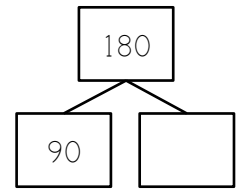
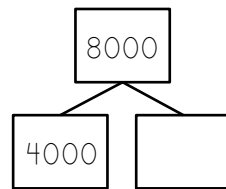
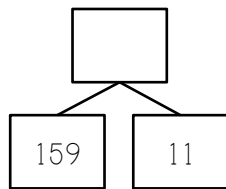
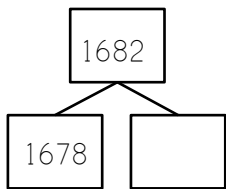
\_\_\_\_\_ + \_\_\_\_\_ = 1000

\_\_\_\_\_ + \_\_\_\_\_ = 1000

\_\_\_\_\_ + \_\_\_\_\_ = 1000

\_\_\_\_\_ + \_\_\_\_\_ = 1000

Fill in the missing numbers.



Write the sum.

4000+4000=\_\_\_\_\_

60+40=\_\_\_\_\_

1000+3000=\_\_\_\_\_

600+400=\_\_\_\_\_

5698+3000=\_\_\_\_\_

500+100=\_\_\_\_\_

2625+300=\_\_\_\_\_

1257+8=\_\_\_\_\_

1780+200=\_\_\_\_\_

500+500=\_\_\_\_\_

0+8509=\_\_\_\_\_

700+700=\_\_\_\_\_

6798+5=\_\_\_\_\_

4908+80=\_\_\_\_\_

800+200=\_\_\_\_\_

7000+1000=\_\_\_\_\_

4448+50=\_\_\_\_\_

6000+3000=\_\_\_\_\_

# Bonus Activity - Teacher Instructions

Include this activity at the end of Level 12 in your Addition Station.

This activity integrates the strategies that students have already learned: +0, +1, +2, and +3, Doubles, Doubles +1, Doubles +2, Making 10/100/1000, Adding 10's and 100's, Plus 7, 8, and 9, Plus 1000, and Using Friendly Numbers.

## Overview:

In this Bonus Activity, students choose a task card, add the numbers, and record the equations in their notebook or on the recording sheet.

## Preparation:

- Print and laminate task cards.
- Make copies of recording sheets (you may wish to have students record the answers in their notebooks instead).
- To set these up, I typically cut out the title and directions and paste them on either side of a piece of cereal box cardboard. I store the center pieces in small re-sealable bags, and then keep everything in a large re-sealable bag. I've made a video showing how I make and store the center pieces that you can watch by clicking here:

<https://www.youtube.com/watch?v=Z4EKxxCYnjo&feature=youtu.be>

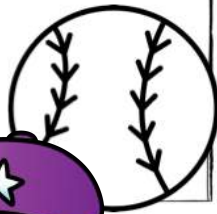


# Ball Team Addition Math Center

$$700 + 100$$

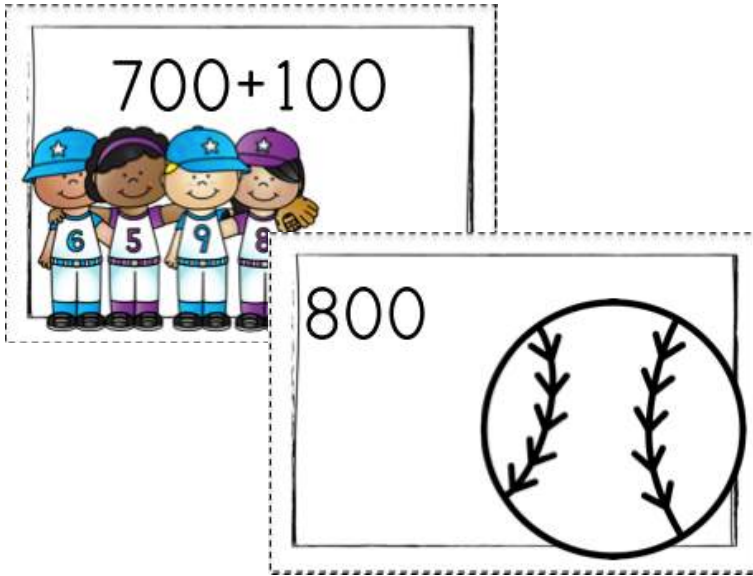


800



## Directions

Choose a "team" card. Read the equation and find the matching sum on a baseball card. Place the two cards together and record the equations on the recording sheet.



$700+100$



$3000+1000$



$2899+2$



$6000+2000$



$6707+3$



$4000+3000$



$11+11$



$600+600$



$$600+700$$



$$2000+3000$$



$$12+14$$



$$500+700$$



$$900+100$$



$$1665+30$$



$$2742+200$$



$$1905+200$$



$$258+7$$



$$47+6$$



$$169+6$$



$$2244+4000$$



$$6090+2000$$



$$136+9$$



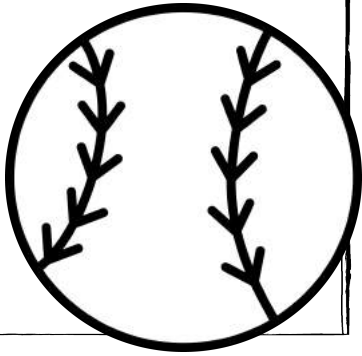
$$256+5$$



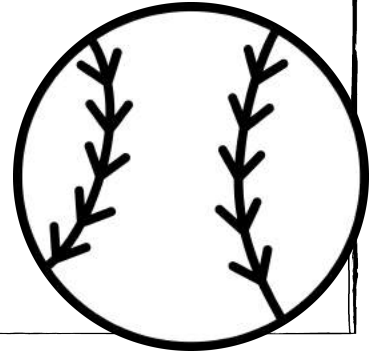
$$1247+9$$



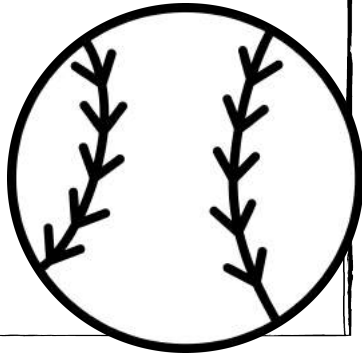
800



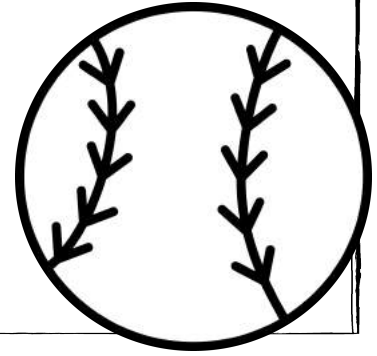
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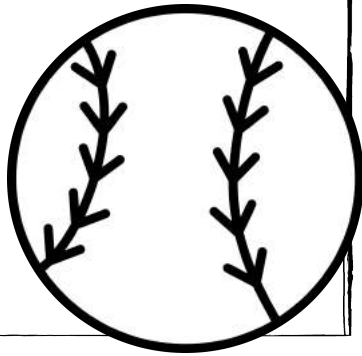
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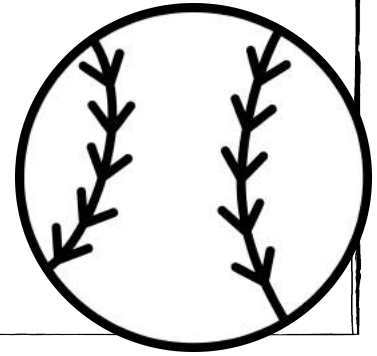
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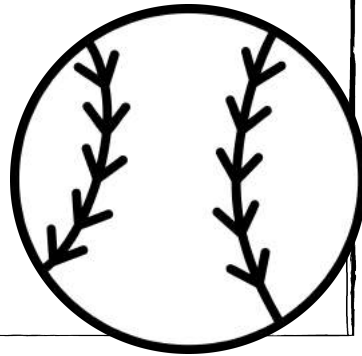
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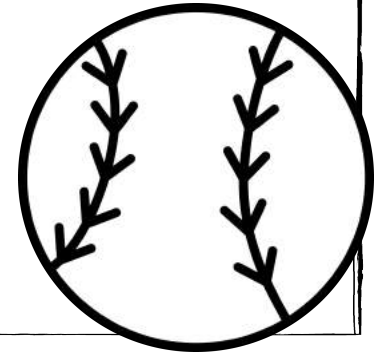
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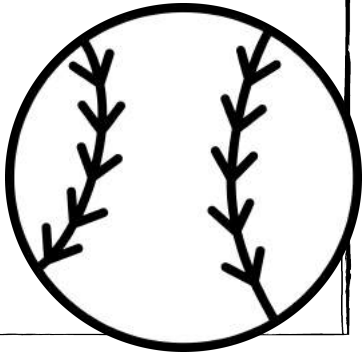
22



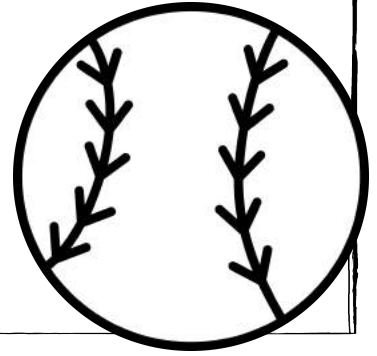
1200



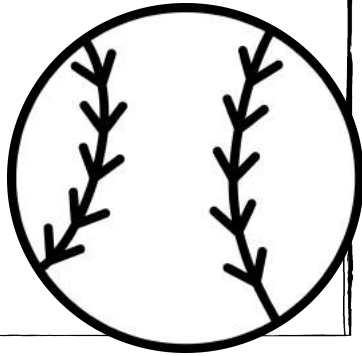
1300



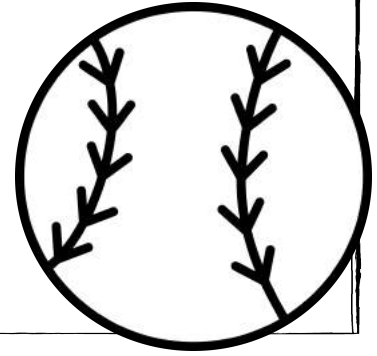
5000



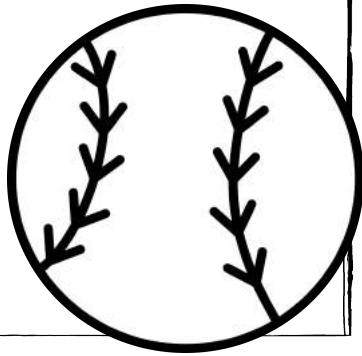
26



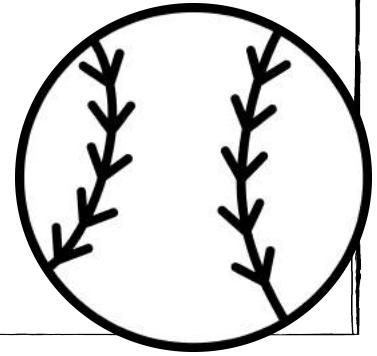
1200



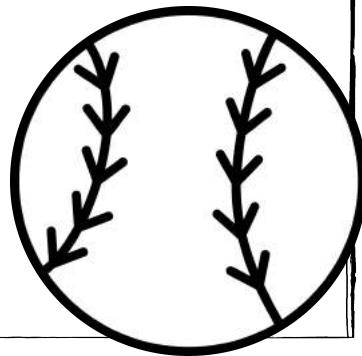
1000



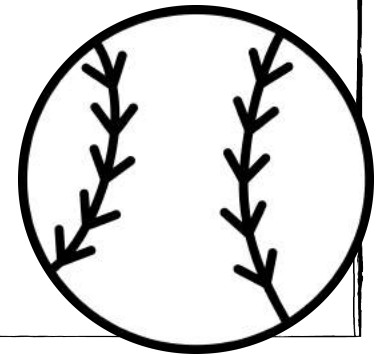
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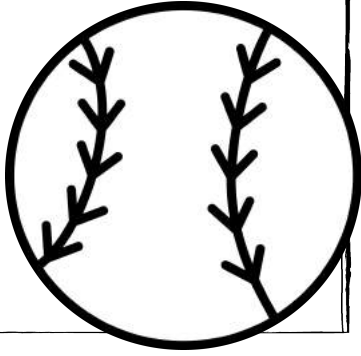
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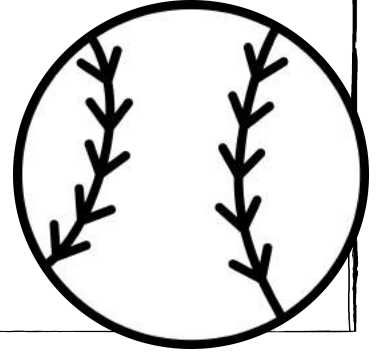
2105



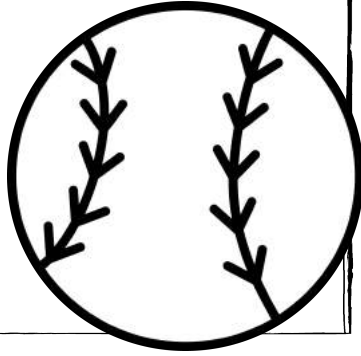
265



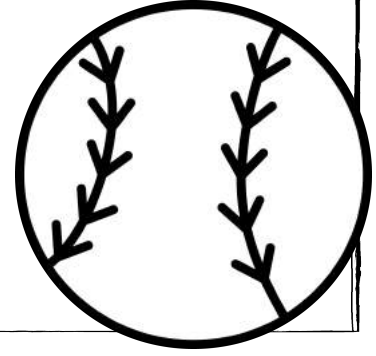
53



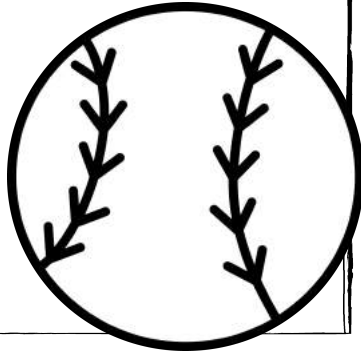
175



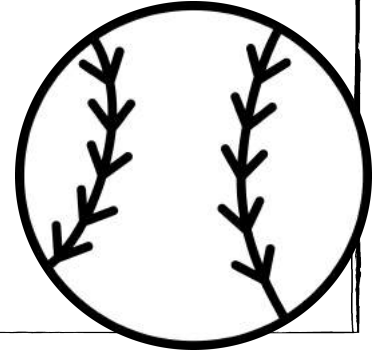
6244



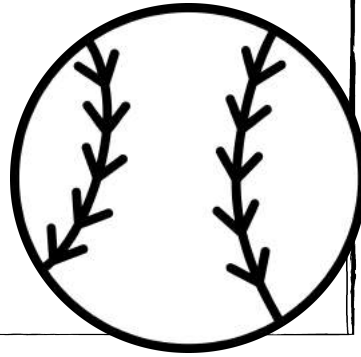
8090



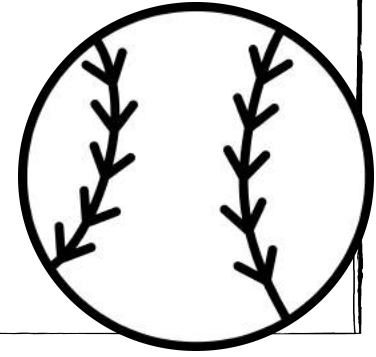
145



261



1256







## Strategy #13: Left-to-Right Addition

In this level, students will learn how to perform left-to-right addition using a mental math approach. In a 3-digit plus 3-digit equation, this means that they will add the hundreds first, then the tens, and then lastly the ones. Place value understanding is crucial for this type of addition, but by this time students should have a good understanding of the thousands, hundreds, tens and ones places.

Ideally, by Grade 4 your students have already been exposed to left-to-right addition; however, it is still important to provide review with smaller numbers before learning with larger numbers.

In this level, students will begin with a brief review of 2-digit + 2-digit and 3-digit + 3-digit equations without regrouping. Then they will move along to addition with regrouping. Lastly, students will practice 4-digit + 4-digit addition with and without regrouping.

# Decomposing Numbers

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

3672	Th	H	T	O

9082	Th	H	T	O

1572	Th	H	T	O

3115	Th	H	T	O

9075	Th	H	T	O

3577	Th	H	T	O

8868	Th	H	T	O

745	Th	H	T	O

9001	Th	H	T	O

$2841 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$9068 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$2524 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$1172 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$7401 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$2213 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$8465 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$1111 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

Write any 4-digit number and then decompose it:

Compose:

$2000 + 400 + 10 + 9 = \underline{\quad}$

$8000 + 100 + 60 + 4 = \underline{\quad}$

$6000 + 400 + 20 + 5 = \underline{\quad}$

$4000 + 100 + 4 = \underline{\quad}$

$7000 + 200 + 60 = \underline{\quad}$

$3000 + 400 + 20 + 5 = \underline{\quad}$

$9000 + 100 + 40 + 4 = \underline{\quad}$

$800 + 80 + 6 = \underline{\quad}$

$5000 + 10 + 4 = \underline{\quad}$

# LEFT-TO-RIGHT

When we add two 2-digit numbers, we can make it easier by adding the tens first, and then the ones. Take a look!

$$62+25$$

$$\text{First add the tens: } \underline{60} + \underline{20} = \underline{80}$$

$$\text{Then add the ones: } \underline{2} + \underline{5} = \underline{7}$$

$$\text{Then add the tens and ones together: } \underline{80} + \underline{7} = \underline{87}$$

$$35+24$$

$$\text{First add the tens: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the ones: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the tens and ones together: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Jack has \$64.00 and Glen has \$33.00. How many dollars do they have altogether?

Show your work:

$$75+23$$

$$\text{First add the tens: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the ones: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the tens and ones together: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

To add 3-digit numbers, we use the same process, except we add the hundreds first. Take a look!

$$253+416$$

$$\text{First add the hundreds: } \underline{200} + \underline{400} = \underline{600}$$

$$\text{Then add the tens: } \underline{50} + \underline{10} = \underline{60}$$

$$\text{Then add the ones: } \underline{3} + \underline{6} = \underline{9}$$

$$\text{Then add the hundreds, tens and ones together: } \underline{600} + \underline{60} + \underline{9} = \underline{669}$$

$$127+542$$

$$\text{First add the hundreds: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the tens: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the ones: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Lastly, add the hundreds, tens and ones together: } \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$865+134$$

$$\text{First add the hundreds: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the tens: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Then add the ones: } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\text{Lastly, add the hundreds, tens and ones together: } \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

# LEFT-TO-RIGHT ADDITION

## WITH and WITHOUT REGROUPING

Regrouping makes this a bit trickier, but you still follow the same process.

EXAMPLE

$$613+641$$

First add the hundreds:  $\underline{600} + \underline{600} = \underline{1200}$

Then add the tens:  $\underline{10} + \underline{40} = \underline{50}$

Then add the ones:  $\underline{3} + \underline{1} = \underline{4}$

Lastly, add the hundreds, tens and ones together:

$$\underline{1200} + \underline{50} + \underline{4} = \underline{1254}$$

$$45+37$$

First add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Lastly, add the tens and ones together:

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

$$437+14$$

First add the hundreds:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Lastly, add the hundreds, tens and ones together:

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

$$54+26$$

First add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Lastly, add the tens and ones together:

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

$$78+41$$

First add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Lastly, add the tens and ones together:

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

$$355+125$$

First add the hundreds:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Lastly, add the hundreds, tens and ones together:

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

$$68+24$$

First add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Lastly, add the tens and ones together:

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

Solve the problem:

It is 136 kilometers to the gas station. The store is 114 kilometers past the gas station. How many kilometers away is the store?

$$236 + 315$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$807 + 122$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$575 + 205$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$355 + 118$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$450 + 150$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$831 + 127$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$648 + 125$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

$$257 + 264$$

First add the hundreds: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the tens: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Then add the ones: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Lastly, add the hundreds, tens and ones together:

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Write any 3-digit + 3-digit equation and solve it using left-to-right addition.

# LEFT-TO-RIGHT *with thousands*

Now that you know how to add 3-digit numbers using left-to-right addition, adding 4-digit numbers is easy! Just use the exact same process.

$$3471 + 1329$$

First add the thousands:  $\underline{3000} + \underline{1000} = \underline{4000}$

Then add the hundreds:  $\underline{400} + \underline{300} = \underline{700}$

Then add the tens:  $\underline{70} + \underline{20} = \underline{90}$

Then add the ones:  $\underline{1} + \underline{9} = \underline{10}$

Then add the thousands, hundreds, tens and ones together:  $\underline{4000} + \underline{700} + \underline{90} + \underline{10} = \underline{4800}$

Now it's your turn!

$$2825 + 1174$$

First add the thousands:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the hundreds:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add everything together:  $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$$1027 + 2244$$

First add the thousands:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the hundreds:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add everything together:  $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$$1234 + 2345$$

First add the thousands:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the hundreds:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the tens:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add the ones:  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Then add everything together:  $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

# Let's Practice Left-to-Right Addition

$3236+1432= \underline{\hspace{2cm}}$

$435+425= \underline{\hspace{2cm}}$

$687+121= \underline{\hspace{2cm}}$

$9085+606= \underline{\hspace{2cm}}$

$1287+1801= \underline{\hspace{2cm}}$

$2421+4713= \underline{\hspace{2cm}}$

$5033+1234= \underline{\hspace{2cm}}$

$5412+2327= \underline{\hspace{2cm}}$

$5563+4014= \underline{\hspace{2cm}}$

$753+135= \underline{\hspace{2cm}}$

$246+270= \underline{\hspace{2cm}}$

$987+101= \underline{\hspace{2cm}}$

$7518+1241= \underline{\hspace{2cm}}$

$4472+2216= \underline{\hspace{2cm}}$

$340+219= \underline{\hspace{2cm}}$

In January and February, there are 1416 hours altogether. In March and April there are 1488 hours altogether. In all, how many hours are there in January, February, March and April?

Show your work.

Write an answer sentence.

When I add from left to right, I have to remember to

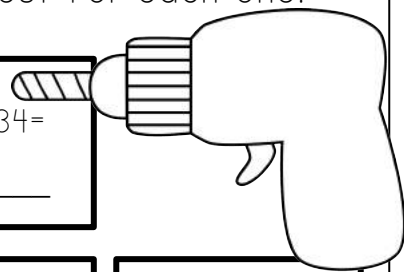
\_\_\_\_\_

The hardest part of left-to-right addition is \_\_\_\_\_



**LET'S ADD IT UP!**

Solve the equations. Use the strategy that works best for each one.



$500+700=$   
\_\_\_\_\_

$3492+11=$   
\_\_\_\_\_

$2451+20=$   
\_\_\_\_\_

$235+234=$   
\_\_\_\_\_

$4000+4000=$   
\_\_\_\_\_

$400+600=$   
\_\_\_\_\_

$3000+6000=$   
\_\_\_\_\_

$800+800=$   
\_\_\_\_\_

$1791+3204=$   
\_\_\_\_\_

$4452+2=$   
\_\_\_\_\_

$2708+3262=$   
\_\_\_\_\_

$800+300=$   
\_\_\_\_\_

$3257+0=$   
\_\_\_\_\_

$5000+4000=$   
\_\_\_\_\_

$257+7=$   
\_\_\_\_\_

$3512+60=$   
\_\_\_\_\_

$187+431=$   
\_\_\_\_\_

$2005+2005=$   
\_\_\_\_\_

$5490+400=$   
\_\_\_\_\_

$2000+7000=$   
\_\_\_\_\_

$0+1230=$   
\_\_\_\_\_

$100+600=$   
\_\_\_\_\_

$500+500=$   
\_\_\_\_\_

$300+200=$   
\_\_\_\_\_

$3254+16=$   
\_\_\_\_\_

$4899+3=$   
\_\_\_\_\_

$469+11=$   
\_\_\_\_\_

$1000+3682=$   
\_\_\_\_\_

$38+43=$   
\_\_\_\_\_

$70+90=$   
\_\_\_\_\_

$200+800=$   
\_\_\_\_\_

$1358+6=$   
\_\_\_\_\_

$187+102=$   
\_\_\_\_\_

$5000+3000=$   
\_\_\_\_\_

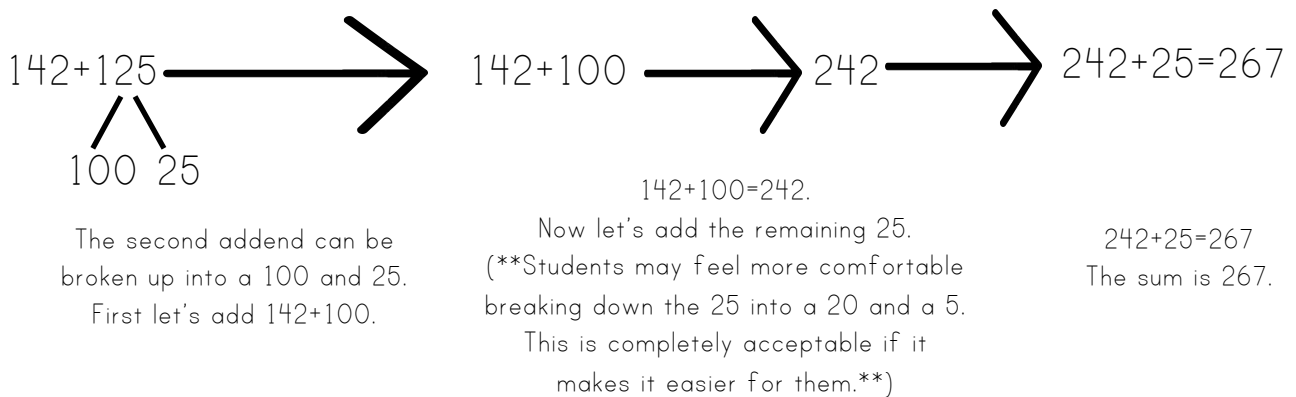
$70+30=$   
\_\_\_\_\_

**TOOLS**

## Strategy #14: Break Up the Second Number

In this level, students will learn another strategy for adding multi-digit numbers. Some students find this strategy more efficient than left-to-right addition. Once they master this strategy, they will possess two “tools” for adding multi-digit numbers. This is beneficial because they can then choose the one that is the most effective and efficient for the particular equation, and for their unique abilities.

Breaking up the second number involves the following steps:



Just as the other strategies have, this strategy will reinforce flexible thinking, and further encourage students to manipulate equations in order to make them easier to solve.

# BREAK IT UP!

Another way to add two 2-digit numbers is to break the second number into 2 parts.

$$\begin{array}{c}
 25+22 \\
 \swarrow \searrow \\
 20 \quad 2
 \end{array}
 \quad \leftarrow \quad
 \begin{array}{l}
 22 \text{ can be broken up into a} \\
 \text{"20" and a "2."}
 \end{array}$$

**Step #1:** Break the second number into tens and ones. In this example, 22 is broken into 20 and 2.

**Step #2:** Add the 1<sup>st</sup> addend (25) to the 20.  $25+20=45$

**Step #3:** Now add the 2 ones.  $45+2=47$

Now it's your turn!

$$\begin{array}{c}
 32+16 \\
 \swarrow \searrow \\
 \square \quad \square
 \end{array}
 \quad \leftarrow \quad
 \begin{array}{l}
 \text{Break the 16 up into a} \\
 \text{\_\_\_\_ and a \_\_\_\_}
 \end{array}$$

**Step #1:** Break the 16 into tens and ones.

**Step #2:** Add the 1<sup>st</sup> addend (32) to the 10.  $32+10=\_\_\_\_\_\_$

**Step #3:** Now add the ones.  $42+6=\_\_\_\_\_\_$

$$\begin{array}{c}
 13+14 \\
 \swarrow \searrow \\
 \square \quad \square
 \end{array}
 \quad \leftarrow \quad
 \begin{array}{l}
 \text{Break the 14 up into a} \\
 \text{\_\_\_\_ and a \_\_\_\_}
 \end{array}$$

**Step #1:** Break the 14 into tens and ones.

**Step #2:** Add the 1<sup>st</sup> addend (13) to the 10.  $13+10=\_\_\_\_\_\_$

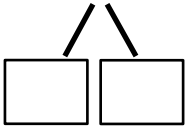
**Step #3:** Now add the ones.  $23+4=\_\_\_\_\_\_$

$$\begin{array}{c}
 27+31 \\
 \swarrow \searrow \\
 \square \quad \square
 \end{array}$$

Show your work here:

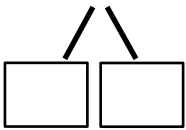
**LET'S KEEP PRACTICING!**

$45+13$



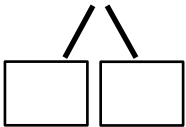
Show your work here:

$24+24$



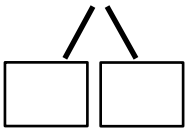
Show your work here:

$63+25$



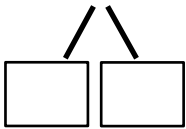
Show your work here:

$50+22$



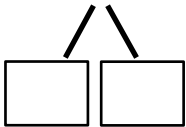
Show your work here:

$15+21$



Show your work here:

$87+11$



Show your work here:

# BREAKING UP BIGGER NUMBERS!

You can break up bigger numbers in the exact same way. Break them up in a way that works for YOU! Here are a couple of examples:

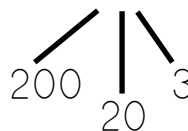
$$146 + 223$$



223 can be  
broken up into a  
"200" and a "23."

**OR**

$$146 + 223$$



223 can be  
broken up into a  
"200," a "20,"  
and a "3."

Solve it:

$$146 + 200 = \underline{\hspace{2cm}}$$

$$346 + 23 = \underline{\hspace{2cm}}$$

Solve it:

$$146 + 200 = \underline{\hspace{2cm}}$$

$$346 + 20 = \underline{\hspace{2cm}}$$

$$366 + 3 = \underline{\hspace{2cm}}$$

Now it's your turn! Break the second number into 2 or 3 parts - whichever works best for you. Use the white space to show your work.

$$257 + 312$$

$$461 + 232$$

$$312 + 144$$

# LET'S KEEP PRACTICING!

$$382+317$$

$$245+224$$

$$605+322$$

$$861+35$$

$$156+533$$

$$575+323$$

# BREAK IT UP!

Use the "break up the second number" strategy to solve the equations. If the sum is odd, shade the pencil yellow. If the sum is even, shade the pencil blue.

$145+230=$   
 \_\_\_\_\_

$347+243=$   
 \_\_\_\_\_

$35+25=$   
 \_\_\_\_\_

$267+251=$   
 \_\_\_\_\_

$593+108=$   
 \_\_\_\_\_

$365+224=$   
 \_\_\_\_\_

$68+23=$   
 \_\_\_\_\_

$740+158=$   
 \_\_\_\_\_

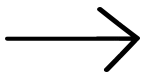
$355+254=$   
 \_\_\_\_\_

$498+212=$   
 \_\_\_\_\_

$502+246=$   
 \_\_\_\_\_

$400+369=$   
 \_\_\_\_\_

Let's try some  
**BIGGER**  
 numbers!



$1243+442=$   
 \_\_\_\_\_

$7590+1203=$   
 \_\_\_\_\_

$3525+1434=$   
 \_\_\_\_\_

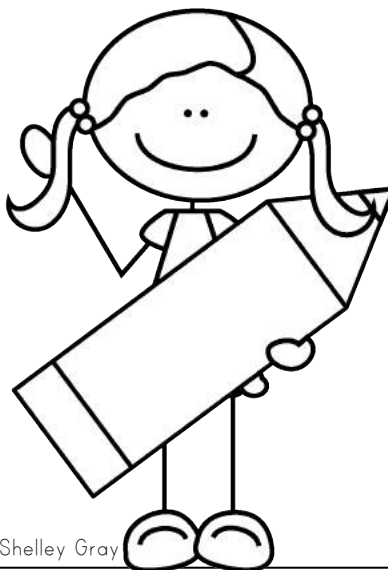
$5520+2236=$   
 \_\_\_\_\_

$3481+1311=$   
 \_\_\_\_\_

$1713+1247=$   
 \_\_\_\_\_

$3419+3400=$   
 \_\_\_\_\_

$2430+6219=$   
 \_\_\_\_\_



# Choose the Best STRATEGY

Let's compare left-to-right addition to the "breaking up the second number" strategy. Which one is the most effective and efficient?

Solve this equation using left-to-right addition:

$145+214$

Add the hundreds:

Add the tens:

Add the ones:

Add it all up:

Which strategy worked best for you?

---

Solve this equation by breaking up the second

number:  $145+214$

Break up the second number and add it to the 145:

Solve this equation using left-to-right addition:

$1147+2462$

Show your work:

Which strategy worked best for you?

---

Solve this equation by breaking up the second

number:  $1147+2462$

Show your work:

Solve this equation using left-to-right addition:

$38+46$

Which strategy worked best for you? \_\_\_\_\_

---

Solve this equation by breaking up the second

number:  $38+46$



# Putting <sup>IT</sup> ALL Together

Use any of the strategies that you have learned so far to complete these activities.

Write a greater than (>), less than (<), or equal sign (=).

$300+500 \square 458+12$

$4457+1152 \square 4509+1000$

$3121+4107 \square 3000+3000$

$235+413 \square 324+324$

$234+245 \square 300+200$

$5381+2500 \square 3000+3000$

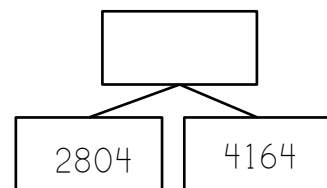
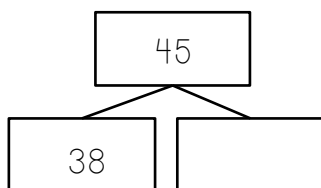
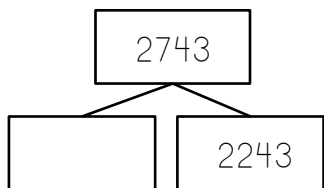
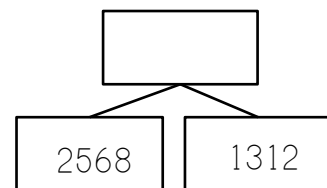
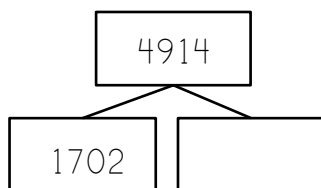
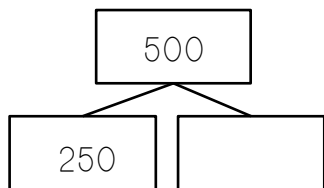
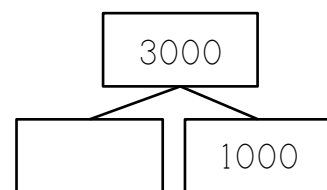
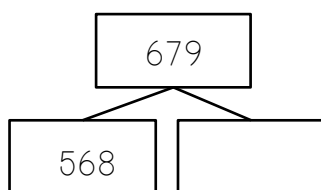
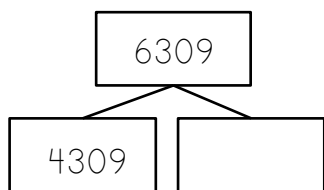
$600+400 \square 700+300$

$4000+6000 \square 8000+2000$

$47+43 \square 28+58$

$548+9 \square 460+100$

Fill in the missing number in each equation. Use any of the strategies that you have learned so far.



## Strategy #15: Compensation

In this level, students will use their knowledge of friendly numbers in order to perform a new, but related strategy called compensation. When students use compensation, they adjust one of the addends to make it easier to solve. But then the answer must be adjusted to compensate for that original adjustment. This sounds confusing, but take a look below and it will make more sense. 😊

The compensation strategy involves the following steps:

$$34+49 \longrightarrow 34+50=84 \longrightarrow -1 \longrightarrow 83$$

We can add 1 to the second addend to make this equation easier to solve.

Since we added 1 to the equation, we now need to subtract 1 from the answer to COMPENSATE for the adjustment.

Here's another example:

$$132+64 \longrightarrow 132+60=192 \longrightarrow +4 \longrightarrow 196$$

We can subtract 4 from the second addend to make this equation easier to solve.

Since we subtracted 4 from the equation, we now need to add 4 to the answer to COMPENSATE for the adjustment.

Just as the other strategies have, this strategy will reinforce flexible thinking, and further encourage students to manipulate equations in order to make them easier to solve.



You can also adjust an addend by SUBTRACTING to make a friendly number. Try it here!

$38+23 \longrightarrow 38+ \underline{\quad} \longrightarrow \underline{\quad} \longrightarrow + \underline{\quad} \longrightarrow \underline{\quad}$

I can make the 23 into a friendly number by SUBTRACTING \_\_\_\_.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I SUBTRACTED \_\_\_\_ from the addend, I now need to add \_\_\_\_ to the sum.

The sum is \_\_\_\_.

$83+18 \longrightarrow 83+ \underline{\quad} \longrightarrow \underline{\quad} \longrightarrow - \underline{\quad} \longrightarrow \underline{\quad}$

I can make the 18 into a friendly number by adding \_\_\_\_.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I added \_\_\_\_ to the addend, I now need to take \_\_\_\_ away from the sum.

The sum is \_\_\_\_.

$46+25 \longrightarrow 25+ \underline{\quad} \longrightarrow \underline{\quad} \longrightarrow - \underline{\quad} \longrightarrow \underline{\quad}$

I can make the 46 into a friendly number by adding \_\_\_\_.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I added \_\_\_\_ to the addend, I now need to take \_\_\_\_ away from the sum.

The sum is \_\_\_\_.

$91+22 \longrightarrow 91+ \underline{\quad} \longrightarrow \underline{\quad} \longrightarrow + \underline{\quad} \longrightarrow \underline{\quad}$

I can make the 22 into a friendly number by SUBTRACTING \_\_\_\_.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I SUBTRACTED \_\_\_\_ from the addend, I now need to ADD \_\_\_\_ to the sum.

The sum is \_\_\_\_.

$128+38 \longrightarrow 128+ \underline{\quad} \longrightarrow \underline{\quad} \longrightarrow - \underline{\quad} \longrightarrow \underline{\quad}$

I can make the 38 into a friendly number by adding \_\_\_\_.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I added \_\_\_\_ to the addend, I now need to take \_\_\_\_ away from the sum.

The sum is \_\_\_\_.

# Let's Practice

## COMPENSATING

Solve the equations below. Try using the compensation strategy in your head. If you still need to write your work down, then use the white space inside each box.

$$345 + 28 = \underline{\quad}$$

$$56 + 18 = \underline{\quad}$$

$$38 + 49 = \underline{\quad}$$

$$122 + 118 = \underline{\quad}$$

$$63 + 19 = \underline{\quad}$$

$$256 + 131 = \underline{\quad}$$

$$381 + 266 = \underline{\quad}$$

$$46 + 46 = \underline{\quad}$$

$$121 + 22 = \underline{\quad}$$

$$483 + 9 = \underline{\quad}$$

$$55 + 17 = \underline{\quad}$$

$$15 + 19 = \underline{\quad}$$

Snowball **COMPENSATION**

Use the compensation strategy to solve the equations below. If you need to write down your "thinking," use a scrap piece of paper.

$346+29=$   
\_\_\_\_\_

$183+122=$   
\_\_\_\_\_

$4707+1219=$   
\_\_\_\_\_

$2573+2219=$   
\_\_\_\_\_

$564+37=$   
\_\_\_\_\_

$286+118=$   
\_\_\_\_\_

$446+39=$   
\_\_\_\_\_

$525+32=$   
\_\_\_\_\_

$352+137=$   
\_\_\_\_\_

$2051+1107=$   
\_\_\_\_\_

$3012+19=$   
\_\_\_\_\_

$2462+317=$   
\_\_\_\_\_

$2222+48=$   
\_\_\_\_\_

$3740+148=$   
\_\_\_\_\_

$38+48=$   
\_\_\_\_\_

$189+26=$   
\_\_\_\_\_

$253+212=$   
\_\_\_\_\_

$1376+1111=$   
\_\_\_\_\_

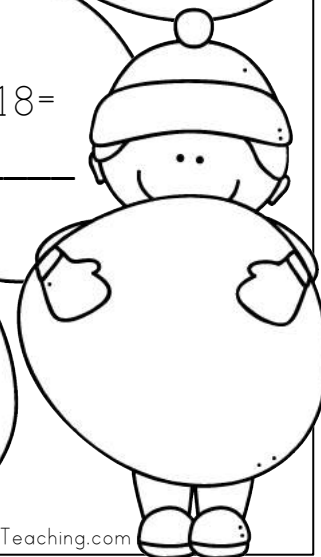
$364+218=$   
\_\_\_\_\_

$255+18=$   
\_\_\_\_\_

$477+22=$   
\_\_\_\_\_

$299+8=$   
\_\_\_\_\_

$268+29=$   
\_\_\_\_\_



# Putting It All Together

## **ADDITION GRID**

Add any two numbers that are touching each other. Then shade the numbers and write the equations below. Use any of the strategies that you have learned so far.

45	9	174	204	2000	3000	1283	213
342	500	2142	2320	119	2451	2313	805
300	410	2004	5022	3489	1210	100	398
700	482	1006	6351	2451	2247	1000	6000
3000	6411	2324	5560	2736	1090	300	2400
1903	253	200	137	400	236	118	152
357	100	372	157	1111	264	210	519
4088	2000	351	100	462	263	233	145

Example:  $357 + 100 = 457$

	+		=	
	+		=	
	+		=	
	+		=	
	+		=	
	+		=	

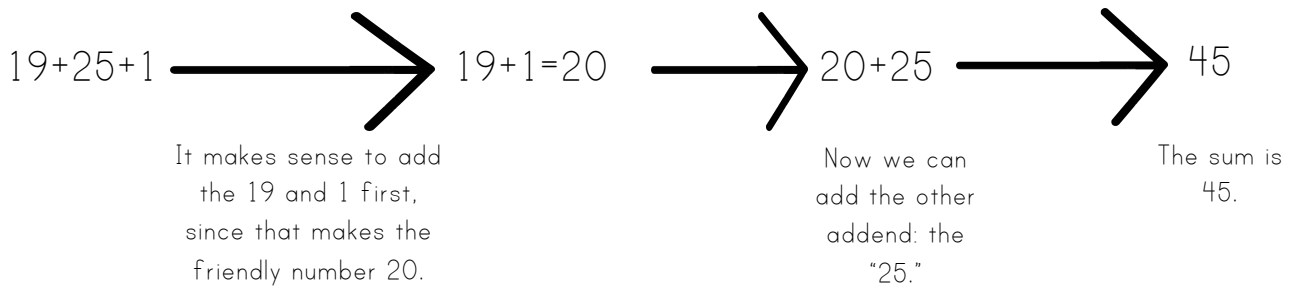
	+		=	
	+		=	
	+		=	
	+		=	
	+		=	
	+		=	

# For the Teacher

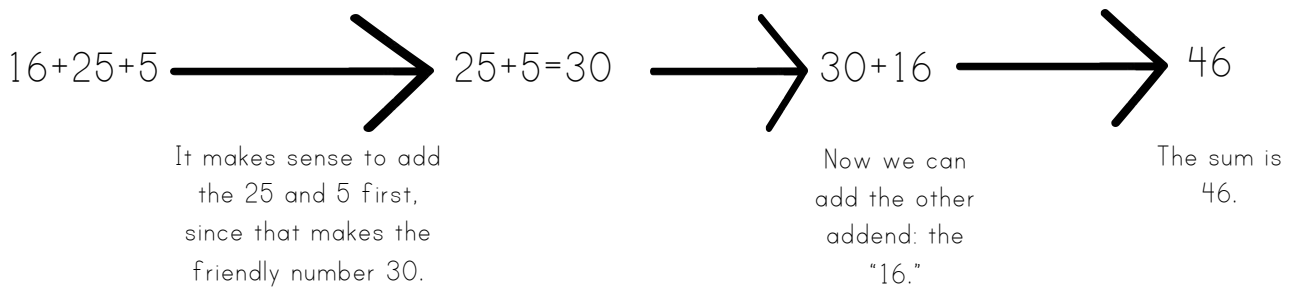
## Strategy #16: Find Compatible Numbers

Finding compatible numbers is a strategy that students can use to add efficiently when they are adding 3 addends. In this level, students will learn how to choose the two easiest addends to add first, and then add the third addend.

Here is an example of how the compatible number strategy works:



Here's another example:





# FINDING COMPATIBLE NUMBERS

When you add more than 2 numbers together, try to look for compatible numbers that make it more efficient to add. Here's an example:

$$19+25+1 \longrightarrow 19+1=20 \longrightarrow 20+25 \longrightarrow 45$$

Let's add the 19 and the 1 first. This will make a friendly

19 and 1 makes the friendly number 20.

Now let's add the last addend: the 25.

The sum is 45.

number!

Now it's your turn!

$$25+17+5 \longrightarrow 25+5= \underline{\quad} \longrightarrow 30+17 \longrightarrow \underline{\quad}$$

Let's add the 25 and 5 first. This will make a friendly number!

25 and 5 makes the friendly number       .

Now let's add the last addend: the 17.

The sum is       .

$$43+10+90 \longrightarrow 10+90= \underline{\quad} \longrightarrow 100+43 \longrightarrow \underline{\quad}$$

Let's add the 10 and 90 first. This will make a friendly number!

10 and 90 makes the friendly number       .

Now let's add the last addend: the 43.

The sum is       .

$$108+42+12 \longrightarrow 108+12= \underline{\quad} \longrightarrow 120+42 \longrightarrow \underline{\quad}$$

Let's add the 108 and 12 first. This will make a friendly number!

108 and 12 makes the friendly number       .

Now let's add the last addend: the 42.

The sum is       .

$$6+34+100 \longrightarrow \underline{\quad} + \underline{\quad} = \underline{\quad} \longrightarrow \underline{\quad} + \underline{\quad} \longrightarrow \underline{\quad}$$

Let's

**FIND COMPATIBLE NUMBERS**

For each equation, underline the two numbers that can be added to make a friendly number (these are called "compatible numbers."). Add those numbers first, and then add the third addend to find the sum. If you need to write down your thinking, use the white space.

$50+67+50=$  \_\_\_\_\_

$19+11+25=$  \_\_\_\_\_

$6+15+34=$  \_\_\_\_\_

$146+30+70=$  \_\_\_\_\_

$17+13+12=$  \_\_\_\_\_

$55+20+20=$  \_\_\_\_\_

$245+20+60=$  \_\_\_\_\_

$140+50+8=$  \_\_\_\_\_

$40+80+30=$  \_\_\_\_\_

$435+235+5=$  \_\_\_\_\_

$215+10+5=$  \_\_\_\_\_

$19+140+1=$  \_\_\_\_\_

# MAKE IT EASIER WITH COMPATIBLE NUMBERS

Solve the equations by adding the compatible numbers first.

$45+100+15=$  \_\_\_\_\_

$450+150+29=$  \_\_\_\_\_

$46+56+14=$  \_\_\_\_\_

$33+7+43=$  \_\_\_\_\_

$10+12+40=$  \_\_\_\_\_

$19+24+31=$  \_\_\_\_\_

$124+90+6=$  \_\_\_\_\_

$67+122+23=$  \_\_\_\_\_

$25+13+25=$  \_\_\_\_\_

Write and solve 8 equations. Make sure that you challenge yourself!

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

$_____ + _____ + _____ = _____$

In Group 1 there are 13 people. In Group 2 there are 14 people. In Group 3 there are 16 people. How many people are in Groups 1, 2, and 3 altogether?

Two kids had a lemonade stand. On Friday they sold 28 cups of lemonade. On Saturday they sold 32 cups of lemonade. On Sunday they only sold 9 cups. How many cups of lemonade did they sell in all?

List 6 sets of compatible numbers (numbers that can be added to make a friendly number).

\_\_\_\_\_, \_\_\_\_\_      \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_      \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_      \_\_\_\_\_, \_\_\_\_\_

# Putting <sup>IT</sup> ALL Together

Use any of the strategies that you have learned so far to complete these activities.

## TRUE AND FALSE

Circle the equations that are true. Draw a rectangle around the equations that are false.

$4567+3000=7567$

$567+29=596$

$357+11=368$

$60+800=140$

$3000+5000=7000$

$25+10+15=50$

$325+413=738$

$1248+1451=2559$

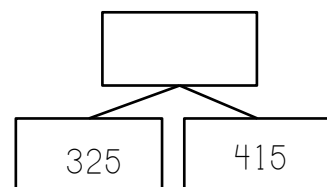
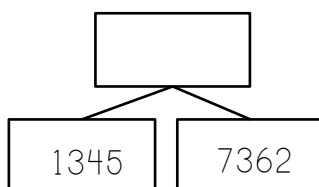
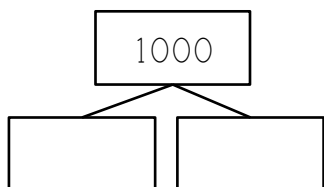
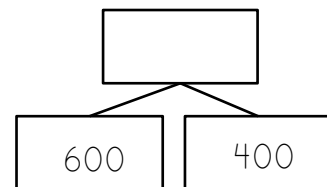
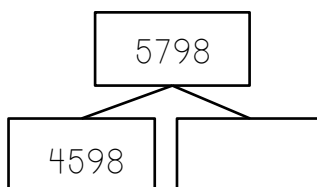
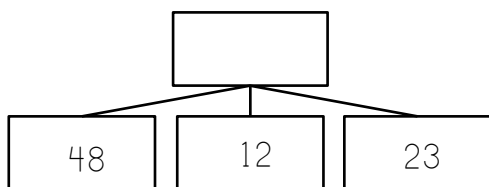
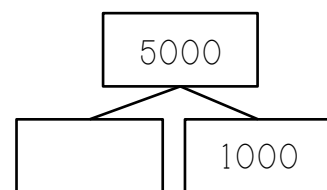
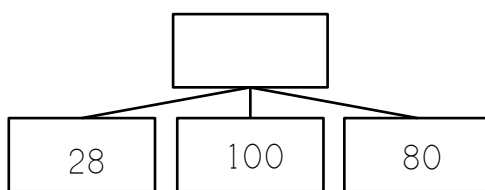
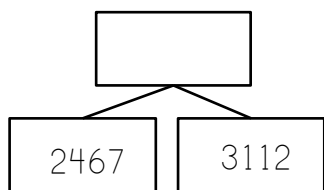
$58+6=63$

$416+200+300=816$

$2000+2324=3324$

$400+600=1000$

Fill in the missing number for each equation. Use any of the strategies that you have learned so far.



# Putting It All Together

Your students have now learned all of the strategies in The {Grade Four} Addition Station. By now your students should have a good understanding of many different mental math strategies. They should be working on using the most effective and efficient one for each equation.

Some of the strategies in this Addition Station are complex. Your students may require manipulatives such as base 10 blocks, or simply a paper and pencil when solving some of the equations. If it helps understanding, encourage students to use manipulatives as much as they need to. You will likely find that they gradually move away from manipulatives and toward doing all of the equations mentally.

This final level is included as a “Putting It All Together” Level. In this level, students will practice all of the strategies that they have learned. They will practice choosing the strategy that is best.

You may also notice that students are using their own strategies rather than the ones that they have learned. They may be manipulating numbers in different ways that work better for them. This should be encouraged! The goal of mental math is to teach students how to think flexibly in order to make the equation faster and easier to solve.

# Equation Hunt

Add up any two numbers that are touching. Shade them in and write the equation (with the sum) in the box.

60	4000	245	20	2387	1190	2201	4500	400	340
2000	1000	974	243	1080	2511	500	400	90	330
755	203	400	210	561	300	5062	612	400	5000
2774	1212	6000	249	2500	406	333	2101	6221	3000
5122	5000	453	220	401	462	1000	100	226	155

2000+755=2755

226+155=381

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

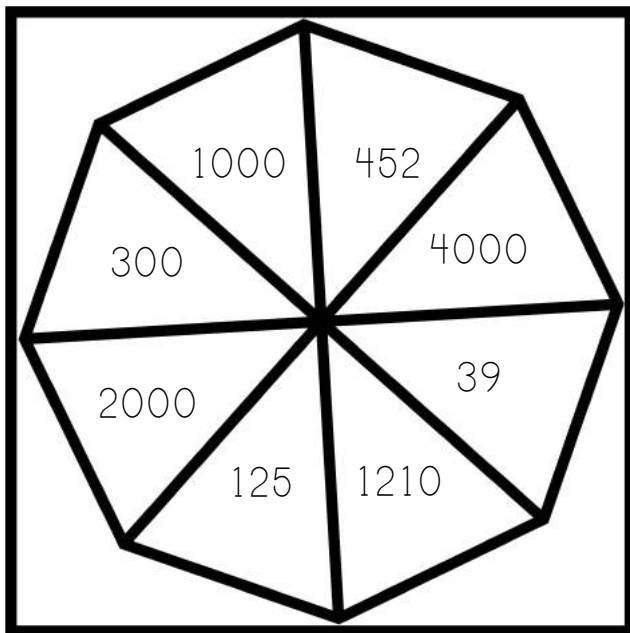
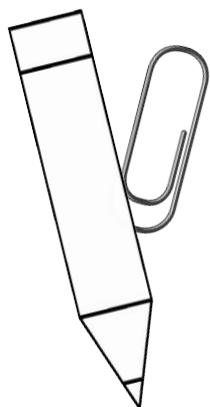
\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

# Add It Up!

Use a paper clip and pencil to spin a number on the spinner. Then write it in any equation below and find the sum.



150+ \_\_\_\_\_ = \_\_\_\_\_

2000+ \_\_\_\_\_ = \_\_\_\_\_

2452+ \_\_\_\_\_ = \_\_\_\_\_

1004+ \_\_\_\_\_ = \_\_\_\_\_

462+ \_\_\_\_\_ = \_\_\_\_\_

57+ \_\_\_\_\_ = \_\_\_\_\_

1482+ \_\_\_\_\_ = \_\_\_\_\_

1551+ \_\_\_\_\_ = \_\_\_\_\_

670+ \_\_\_\_\_ = \_\_\_\_\_

3000+ \_\_\_\_\_ = \_\_\_\_\_

800+ \_\_\_\_\_ = \_\_\_\_\_

5013+ \_\_\_\_\_ = \_\_\_\_\_

600+ \_\_\_\_\_ = \_\_\_\_\_

2500+ \_\_\_\_\_ = \_\_\_\_\_

533+ \_\_\_\_\_ = \_\_\_\_\_

Write any equation and represent it on the number line below:

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

# Problem-Solving

Trent's farm has been around for 3 generations. Trent's grandpa farmed the land for 45 years. Trent's dad farmed the land for 35 years. Trent has been farming it for 13 years. In all, how many years has Trent's farm been around for?

Show your work.

Write an answer sentence.

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In 2012, 4678 people visited the museum. In 2013, 2000 more visited than in 2012. In 2014, 1000 more people visited the museum than in 2013. How many people visited the museum in 2014?

Show your work.

Write an answer sentence.

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1243 people live in the apartment building. 49 more people move in. Now how many people live in the apartment building?

Show your work.

Write an answer sentence.

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