## shelley grays

## FOURTH CRADE

## ADDITION \& SUBTRACTION

## STRATEGY GUIDE



|  | LEFT-T0-RIGHT ADDITION <br> Add the thousands first, then the hundreds, |  |  |
| :---: | :---: | :---: | :---: |
| O USING FRIENDLY NUMBERS <br> "Bridge" to a friendly number, and then add the remainder. (Number lines are useful for this strategy.) <br> Example: For $418+6$, start with 418 and add 2 to get to 420 , then add the remaining 4 to make 424 . |  | : ones. <br> ?. first nake 5. | $20+10$ to hen add 30+5 |
|  |  | 313=9515 | $34+13=47$ |
| SAMPLE EQUATIONS: |  | $\left\lvert\, \begin{aligned} & 17 \\ & p=9921\end{aligned}\right.$ | $256+122=378$ $13+14=27$ |
| $466+7=473$ | $116+7=123$ |  |  |
| $79+4=83$ | $4857+9=4866$ |  | $75+13=88$ |
| $615+7=622$ | $1675+6=1681$ |  |  |

## introduction

Hi there! I'm Shelley Gray, and I want to challenge you to focus intensively on math facts this school year. Let's stop seeing math facts as an isolated math unit, and begin integrating them wherever possible into our math and daily routines.

A solid understanding of math facts in early grades will help your students as they progress to later grades. Imagine how simple long division and multi-digit multiplication can be when the basic facts are already mastered?

## strategy vs memorization

When we think about mastery of the math facts, we tend to think about getting a quick answer. Automaticity is a goal. This means that students can solve a fact within l-3 seconds, and just "know" the answer. But there is more to it!

We want to teach our students to be flexible thinkers when it comes to solving an equation. This means that they are able to manipulate the numbers in different ways in order to solve a problem. The steps that one student takes to solve a problem might be very different than the steps that another student takes. We want to celebrate this flexible thinking!

Math fact fluency should not be based on the ability to perform a memorized series of steps. It is so much more than that.
big goals

Throughout your math fact instruction and practice this year, try to keep three main words in mind when it comes to how your students are solving a problem or equation: EFFECTIVE, EFFICIENT, FLEXIBLE. Is the strategy effective and efficient (is it quick and works well)? Are they able to think flexibly with the numbers?

## how to use this guide

This guide is intended as a reference guide for the various mental math strategies that are best-suited to your particular grade level.

It can be really confusing to teach math strategies. How do you integrate them? When do you move on to the next one? How do you differentiate to the different ability levels?

My hope is that this guide gives you a starting point for reinforcing the strategies. Begin with the first strategy, allow your students to master it, and then move along to the next one.

If you are not in our 30-Day Math Fact Challenge private Facebook group yet, be sure to join so that you collaborate with other teachers who have the same goals as you. Join here: https://www.facebook.com/groups/424672038022627/

## resources

You do not need to purchase any resources to reinforce these strategies. You simply need a commitment to teaching and reinforcing them throughout the year.

However, if you would like a complete system to help you do this, here is a link to The Fourth Grade Addition Station and The Fourth Grade Subtraction Station, which will reinforce all of the strategies that are outlined in this guide. The entire Addition and Subtraction Station programs are self-paced so that students will move through the strategies as they feel ready.


In this strategy guide you will find Quick Reference Cards and a timed test for assessment.

## QUICK REFERENCE CARDS

The Quick Reference Cards can be laminated and put on a ring for quick and easy reference to the strategies that are best suited for this grade level.


They can also be used for oral assessments. I highly recommend oral assessments to assess math strategy knowledge. When you SEE a student solve an equation, you get a far different perspective than you do when you simply mark a written solution.

Oral assessments enable you to see which facts/strategies a student struggles with, which ones are quicker than the rest, and which strategies are used to solve a problem.

Oral assessment is the assessment method that is used in all of my math stations. Although this might seem like a huge task, it only takes about I-2 minutes, and many teachers report that it is their favorite part of using the stations.

If you would like to try oral assessments, you can use the Quick Reference Cards from the previous few pages as a guide. Look for the following:

- Is he using an effective strategy to solve the equation?
- Is his strategy efficient? (meaning that he can solve the equation in l-3 seconds)
- Can you see flexibility in his thinking? (is he able to manipulate the numbers in a flexible way to make the strategy work for him?)


## TIMED TESTS

Timed tests do not work for every student. However, they can be useful to assess fact recall.

I've included a timed test sheet following the Quick Reference Cards.

IF you choose to use them in your classroom, here are some ideas for use:

- Focus on self-improvement and self-growth over time rather than competition with classmates.
- Do not force a student to perform a timed test if it causes stress to him/her.
- Have students perform the assessment once every 2 weeks to assess self-improvement.
- Only expect to see growth if fact practice is a regular part of the classroom routine.


# ADOITION 

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# ADDITION STRATEGIES 

## QUICK REFERENCE CARDS FOR FOURTH GRADE

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## $\bigcirc$ <br> PLUS 1

Any number plus 1 is one more than that number.
*Extend to $10^{\prime}$ s, 100 's, and 1000 's.

Example: If $6+1=7$, then $60+10=70$ and $600+100=700$

| SAMPLE EQUATIONS: |  |
| :--- | :--- |
| $221+=222$ | $30+10=40$ |
| $1097+1=1098$ | $400+100=500$ |
| $564+1=565$ | $7000+1000=8000$ |
| $477+=478$ | $50+10=60$ |
| $2909+1=2910$ | $2000+1000=3000$ |

## O PLUS 0

Any number plus 0 equals that number.

Example: $16+0=16$

## SAMPLE EQUATIONS:

| $110+0=110$ | $1255+0=1255$ |
| :--- | :--- |
| $250+0=250$ | $409+0=409$ |
| $2392+0=2392$ | $64+0=64$ |
| $655+0=655$ | $2003+0=2003$ |
| $30+0=30$ | $388+0=388$ |

## ○ <br> PLUS 2

Any number plus 2 is two more than that number.
*Extend to 10 's, 100 's, and 1000 's.

Example: If $6+2=8$, then $60+20=80$ and $600+200=800$
SAMPLE EQUATIONS:
$256+2=258$
198|+2=|983
$457+2=459$
$2036+2=2038$
$562+2=564$
$40+20=60$
$500+200=700$
$80+20=100$
6000+2000=8000 $300+200=500$

## PLUS 3

Any number plus 3 is three more than that number.
*Extend to $10^{\prime} \mathrm{s}, 100$ 's, and $1000^{\prime}$ s.

Example: If $6+3=9$, then $60+30=90$ and $600+300=900$

## SAMPLE EQUATIONS:

| $822+3=825$ | $40+30=70$ |
| :--- | :--- |
| $467+3=470$ | $500+300=800$ |
| $1075+3=1078$ | $6000+3000=9000$ |
| $245+3=248$ | $70+30=100$ |
| $1001+3=1004$ | $400+300=700$ |
| $3275+3=3278$ | $200+300=500$ |

## - DOUBLES PLUS ONE

The double plus one more. Also, extend to tens and hundreds.

Example: If $3+4=7$, then $30+40=70$ and $300+400=700$.

## SAMPLE EQUATIONS:

| $5+6=11$ | $2+3=5$ | $11+12=23$ |
| :--- | :--- | :--- |
| $9+10=19$ | $7+8=15$ | $10+20=30$ |
| $1+2=3$ | $6+7=13$ | $60+70=130$ |
| $3+4=7$ | $4+5=9$ | $300+400=700$ |
| $8+9=17$ | $10+11=21$ | $200+300=500$ |
| $3000+4000=7000$ | $4000+5000=9000$ |  |

## ○ DOUBLES

Have your students try to memorize the doubles facts. Then practice extensions to the tens, hundreds, and thousands.

Example: If $3+3=6$, then $30+30=60$ and $300+300=600$

SAMPLE EQUATIONS:

| $1+1=2$ | $4+4=8$ | $8+8=16$ |
| :--- | :--- | :--- |
| $2+2=4$ | $5+5=10$ | $9+9=18$ |
| $30+30=60$ | $6+6=12$ | $10+10=20$ |
| $300+300=600$ | $7+7=14$ | $\\|+1 \mid=22$ |
| $40+40=80$ | $70+70=140$ | $12+12=24$ |
| $3000+3000=6000$ | $4000+4000=8000$ |  |

## - DOUBLES PLUS 2

The double of the number plus 2 more. Also, extend to tens and hundreds.

Example: If $3+5=8$, then $30+50=80$ and $300+500=800$.

SAMPLE EOUATIONS:

| $200+400=600$ | $8+10=18$ |
| :--- | :--- |
| $3+5=8$ | $2+4=6$ |
| $30+50=80$ | $5+7=12$ |
| $7+9=16$ | $50+70=120$ |
| $6+8=14$ | $10+12=22$ |
| $1+3=4$ | $100+300=400$ |
| $3000+5000=8000$ | $2000+4000=6000$ |

## ○ MAKING 10. 100. AND MAKING 1000

Know the addition facts that make 10 . Use these facts to make 100 and 1000 .

Example: "What can you add to 6 to make IO? What can you add to 60 to make 100?"

| SAMPLE EQUATIONS: |  |  |
| :--- | :--- | :--- |
| $8+\ldots=10$ | $3+\ldots=10$ | $30+\ldots=100$ |
| $4+\ldots=10$ | $7+\ldots=10$ | $20+\ldots=100$ |
| $6+\ldots=10$ | $10+\ldots=10$ | $400+\ldots=1000$ |
| ${ }^{+}+\ldots=10$ | $2+\ldots=10$ | $50+\ldots=100$ |
| $9_{+}+\ldots=10$ | $5+\ldots=10$ | $700+\ldots=1000$ |

## ○ ADDING 10'S AND 100'S

Add groups of 10 or 100 to the tens and hundreds place.

Example: To solve $234+20$, just add two groups of 10 to the tens place to make 254.

SAMPLE EQUATIONS:
$73+10=83$
Ч५9+30=479
$127+20=147$
$780+200=980$
$6145+200=6345$
$3000+700=3700$ 5314+40=5354
$7600+200=7800$
275+400=675
$569+10=579$

## ○ PLUS 7. 8. AND 9 (FOR NUMBERS ENDING IN 7. 8. OR 9)

Take from one number and give to the other to make a number that is easier to work with.

Example: For 226+8, think, "I could take 2 from the 226 and add it to the 8 to make 10 , and then add the leftover 224 to make 234."

## SAMPLE EQUATIONS:

| $829+8=837$ | $77+9=86$ |
| :--- | :--- |
| $427+6=433$ | $39+5=44$ |
| $568+7=575$ | $5018+5=5023$ |
| $48+8=56$ | $108+4=\\| 12$ |
| $6819+2=682 \mid$ | $509+4=513$ |

## ○ <br> ADDING 1000's

Add groups of 1000 to the 1000 's place.

Example: For $324+1000$, add one group of 1000 to make 1324.

## SAMPLE EOUATIONS:

$1002+1000=2002 \quad 1346+1000=2346$
$389+2000=2389 \quad 231+2000=2231$
$354+1000=1354 \quad 719+1000=1719$
$24 Ч 1+3000=54$ 네 $367+1000=1367$
$6873+2000=8873$

## ○ USING FRIENDLY NUMBERS

"Bridge" to a friendly number, and then add the remainder. (Number lines are useful for this strategy.)

Example: For $4 / 8+6$, start with $4 / 8$ and add 2 to get to 420 , then add the remaining 4 to make 424 .

## SAMPLE EQUATIONS:

| $466+7=473$ | $116+7=123$ |
| :--- | :--- |
| $79+4=83$ | $4857+9=4866$ |
| $615+7=622$ | $1675+6=1681$ |
| $67+5=72$ | $2108+5=2113$ |
| $1217+5=1222$ | $345+6=351$ |

## ○ BREAK UP THE SECOND NUMBER

Break the second number into its expanded form and then add in parts.

Example: To solve 25+34, first add $25+30$ to make 55, then $55+4$ to make 9 .

## SAMPLE EQUATIONS:

| $\|8+\| \|=29$ | $1423+350=1773$ |
| :--- | :--- |
| $120+25=145$ | $93+24=\mid 17$ |
| $43+32=75$ | $202+374=576$ |
| $56+42=98$ | $35+57=92$ |
| $167+\|2\|=288$ | $25+33=58$ |

## O LEFT-TO-RIGHT ADDITION

Add the thousands first, then the hundreds, then the tens, then the ones.

Example: To solve $23+12$, first add $20+10$ to make 30, then 3+2 to make 5. Then add 30+5 to make 35 .

SAMPLE EQUATIONS:

| $\mid 2+45=57$ | $7202+23 \mid 3=9515$ | $34+\mid 3=47$ |
| :--- | :--- | :--- |
| $\|\|5+2\| 2=327$ | $23+24=47$ | $256+122=378$ |
| $80+\mid 9=99$ | $761\|+23\| 0=992 \mid$ | $13+\mid 4=27$ |
| $61+18=79$ | $180+30\|=48\|$ | $43+24=67$ |
| $31+32=63$ | $54+1 \mid=65$ | $75+13=88$ |

## - COMPENSATION

Change one of the addends to make it more manageable. Then adjust the sum to make up for the original change.

Example: To solve $34+49$, first solve $34+50$ to make 84. Since we added one to the equation, we take I away from the answer to make 83.

## SAMPLE EQUATIONS:

$\begin{cases}32+38=70 & |2| 3+2| |=\mid 424 \\ \text { 니 }+72=\| \mid 3 & 2500+3 \mid 3=2813 \\ 64+47=|| | & 5|0+2| 3=723 \\ 302+39=34 \mid & 240+\mid \text { || }=381 \\ 250+252=502 & 22+62=84\end{cases}$

How many equations can you solve in I minute?

| $176+3=$ | $200+800=$ | $500+200=$ |
| :---: | :---: | :---: |
| $50+60=$ | $2447+2=$ | $12+12=$ |
| $500+300=$ | $829+8=$ | $7229+5=$ |
| $77+9=$ | $509+4=$ | $70+30=$ |
| $200+100=$ | $40+20=$ | $2490+1=$ |
| $\\|+\\|=$ | $80+90=$ | $3651+20=$ |
| $4000+2000=$ | $465+3=$ | $40+30=$ |
| $39+5=$ | $2544+1000=$ | $2000+4000=$ |
| $7+7=$ | $300+300=$ | 2097+0= |
| $1456+400=$ | $319+5=$ | $200+300=$ |
| $1 \mid+12=$ | $4000+1000=$ | $617+5=$ |
| $145+2=$ | $388+300=$ | $500+500=$ |
| $600+400=$ | $2000+3000=$ | $6799+2=$ |
| $1242+0=$ | $2867+30=$ | $58+6=$ |
| $30+50=$ | $456+0=$ | $856+15=$ |
| $900+900=$ | $346+10=$ | $900+100=$ |
| $3289+400=$ | 4377+1= | $222+555=$ |
| $600+800=$ | $26+4 \mid=$ | $500+500=$ |
| $68+7=$ | $3551+400=$ | $306+12=$ |
| $4000+4000=$ | $40+60=$ | $8+8=$ |



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## SUBTRACTION STRATEGIES

## QUICK REFERENCE CARDS FOR FOURTH GRADE

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## $\bigcirc$ <br> ONE LESS

-I means one less. Extend this to tens and ones.

Example: If 8-1=7, then $80-10=70$ and $800-100=700$.

| SAMPLE EQUATIONS: |  |  |
| :---: | :---: | :---: |
| 43-1=42 | $29-1=28$ | $70-10=60$ |
| 990-1=989 | 200-100=100 | 60-I=59 |
| $30-10=20$ | \|4-1=13 | $30-1=29$ |
| $20-1=19$ | 87-I=86 | 500-100=400 |
| $90-80=70$ | 300-100=200 | 18-1/17 |
| 3000-1000=2000 | 20006000 | $-1000=5000$ |

## - PROPERTIES OF 0

A number subtract 0 equals that same number. A number subtract that same number equals 0 .

Example: $5-0=5$ and $5-5=0$

## SAMPLE EQUATIONS:

| $2340-2340=0$ | $67-0=67$ | $\\|2-0=\\| 12$ |
| :--- | :--- | :--- |
| $204-0=204$ | $4012-0=4012$ | $92-0=92$ |
| $47-47=0$ | $\|9\|-0=191$ | 4 ㄴ0-40 $=0$ |
| $1200-1200=0$ | $56-0=56$ | $98-98=0$ |
| $59-0=59$ | $27-27=0$ | $94-94=0$ |

## - TWO LESS

-2 means two less. Extend this to tens and ones.

Example: If 8-2=6, then 80-20=60 and $800-200=600$.

SAMPLE EQUATIONS:

| $30-20=10$ | $57-2=55$ | $80-20=60$ |
| :--- | :--- | :--- |
| $92-2=90$ | $600-200=400$ | $13-2=11$ |
| $44-2=42$ | $70-20=50$ | $60-20=40$ |
| $500-200=300$ | $97-2=95$ | $25-2=23$ |
| $85-2=83$ | $37-2=35$ | $50-2=48$ |
| $7000-2000=5000$ | $5000-2000=3000$ |  |

## - COUNTING BACK

Count back to subtract $1,2,3$, or 4 .

Example: For II5-4, think: "I|5..||4, II3, ||2, |II."

| SAMPLE EQUATIONS: |  |  |
| :--- | :--- | :--- |
| $1877-4=1873$ | $58-4=54$ | $7301-3=7298$ |
| $51-3=48$ | $675-4=671$ | $14-2=12$ |
| $80-3=77$ | $35-3=32$ | $9820-3=9817$ |
| $289-2=287$ | $650-3=647$ | $55-2=53$ |
| $9202-2=9200$ | $40-4=36$ | $84-3=81$ |

## ○ THINK ADDITION

Use addition to subtract.

Example: For 15-10, think: "What can I add to 10 to make 15?"

| SAMPLE EQUATIONS: |  |  |
| :--- | :--- | :--- |
| \||90-100=1090 | $20-9=\| \|$ | $100-65=35$ |
| $29-8=2 \mid$ | $63-30=33$ | $301-20 \mid=100$ |
| $1322-10=1312$ | $3-2=1$ | $20-7=13$ |
| $314-307=7$ | $812-800=12$ | $18-8=10$ |
| $800-500=300$ | $25-15=10$ | $70-50=20$ |

## ○ <br> COUNTING UP

Start with the smaller number and count up to the bigger one when the difference is 4 or less.

Example: For 25-21, think: "21...22, 23, 24, 25." We counted up 4 , so the difference is 4 ."

SAMPLE EQUATIONS:

| $458-455=3$ | $36-32=4$ | $1422-1419=3$ |
| :--- | :--- | :--- |
| $51-48=3$ | $300-297=3$ | $600-598=2$ |
| $510-506=4$ | $67-64=3$ | $72-70=2$ |
| $17-15=2$ | $1210-1207=3$ | $32-29=3$ |
| $56-53=3$ | $220-216=4$ | $89-85=4$ |

## - USING DOUBLES

Use the doubles facts. Also, extend this to the tens and hundreds.

Example: If 6-3=3, then 60-30=30 and $600-300=300$.

## SAMPLE EQUATIONS:

| $14-7=7$ | $22-\|1=\| \|$ | $10-5=5$ |
| :--- | :--- | :--- |
| $6-3=3$ | $8-4=4$ | $60-30=30$ |
| $24-12=12$ | $18-9=9$ | $400-200=200$ |
| $16-8=8$ | $12-6=6$ | $800-400=400$ |
| $20-10=10$ | $4-2=2$ | $8000-4000=4000$ |
| $6000-3000=3000$ | $4000-2000=2000$ |  |

## O USING NEAR DOUBLES

Use the addition doubles plus I facts to solve. Then extend this to the tens and hundreds.

Example: If $9-4=5$, then $90-40=50$ and $900-400=500$.

| SAMPLE EQUATIONS: |  |  |
| :--- | :--- | :--- |
| $3-\mid=2$ | $\\|-5=6$ | $5000-3000=2000$ |
| $300-200=100$ | $13-7=6$ | $17-8=9$ |
| $17-9=8$ | $5-2=3$ | $130-60=70$ |
| $90-40=50$ | $2\|-10=\| \|$ | $7000-3000=4000$ |
| $19-9=10$ | $\mid 5-7=8$ | $21-1 \mid=10$ |

## O USING COMBINATIONS Of 100 AND 1000

Use the addition combinations of 100 and 1000 to subtract.

Example: For 1000-700, think, "What can I add to 700 to make 1000?"
SAMPLE EQUATIONS:

| $100-20=80$ | $100-70=30$ |
| :--- | :--- |
| $1000-500=500$ | $100-50=50$ |
| $100-40=60$ | $1000-800=200$ |
| $100-90=10$ | $100-80=20$ |
| $1000-300=700$ | $1000-600=400$ |

## O USING COMBINATIONS OF 10 AND MULTIPLES OF 10

Use the addition combinations that make IO, and expand that knowledge to multiples of IO.

Example: For 10-7, think: "I know that 3 and 7 makes 10 , so the difference is 3 ."
SAMPLE EQUATIONS:

| $80-4=76$ | $10-7=3$ | $20-5=15$ |
| :--- | :--- | :--- |
| $20-8=12$ | $20-3=17$ | $50-2=48$ |
| $10-5=5$ | $70-9=61$ | $60-1=59$ |
| $20-14=6$ | $20-10=10$ | $20-6=14$ |
| $90-6=84$ | $20-9=1 \mid$ | $10-8=2$ |

## - BACK TO A FRIENDLY NUMBER

Decompose the subtrahend to get to a friendly number ( $10,20,50,100$, etc.) first. Then subtract the rest.

Example: For 14-5, do 14-4 first to get to 10, then subtract I more to make 9 .

## SAMPLE EQUATIONS:

| $65-6=59$ | $14-6=8$ | $72-4=68$ |
| :--- | :--- | :--- |
| $24-5=19$ | $46-7=39$ | $225-7=218$ |
| $364-12=352$ | $71-5=66$ | $25-6=19$ |
| $17-9=8$ | $14-7=7$ | $12-7=5$ |
| $156-7=149$ | $17-8=9$ | $32-5=27$ |

## - UP TO A FRIENDLY NUMBER

Start with the smaller number and go up to a "friendly number" (easy to work with), and then add the rest.

Example: For 61-54, think: "I can add 6 to 54 to get to 60 , and then I more to get to 61 , so the difference is 7 ."

| SAMPLE EQUATIONS: |  |  |
| :--- | :--- | :--- |
| $213-199=14$ | $250-198=52$ | $55-42=13$ |
| $45-28=17$ | $34-17=17$ | $24-18=6$ |
| $172-165=7$ | $180-95=85$ | $62-26=36$ |
| $105-96=9$ | $404-390=14$ | $100-31=69$ |
| $25-19=6$ | $44-18=26$ | $88-16=72$ |

## - SUBTRACTING MULTIPLES OF 10 AND 100

Subtract groups of 10 from the tens place and groups of 100 from the hundreds place.

Example: For 43-20, think: "43 subtract 2 groups of 10 makes 23."

## SAMPLE EQUATIONS:

| $61-50=\mid 1$ | $772-30=742$ |
| :--- | :--- |
| $34-20=14$ | $841-30=8 \mid 1$ |
| $38-10=28$ | $356-200=156$ |
| $237-20=217$ | $44-10=34$ |
| $198-60=138$ | $3814-600=3214$ |

## SUBTRACT 7. 8. AND 9

First subtract IO, then make up for the difference.

Example: For $45-9$, think: "45 subtract 10 is 35 , then add I (since we took away one extra) to make 36."

SAMPLE EQUATIONS:

| $45-9=36$ | $\mid 32-7=125$ | $76-9=67$ |
| :--- | :--- | :--- |
| $64-8=56$ | $562-8=554$ | $104-8=96$ |
| $82-7=75$ | $102-7=95$ | $\|425-9=\| 416$ |
| $34-8=26$ | $313-7=306$ | $44 \mid-9=432$ |
| $\|\mid 2-9=103$ | $\|53-8=\| 45$ | $3 \mid 3-7=306$ |

## - SUBTRACT 1000 AND MULTIPLES OF 1000

Take groups of 1000 away from the thousands place.

Example: For 3429-2000, think: "3429 subtract 2 groups of 1000 makes $1429 . "$
SAMPLE EQUATIONS:

| $5436-1000=4436$ | $2450-2000=450$ |
| :--- | :--- |
| $7761-3000=4761$ | $3100-3000=100$ |
| $2450-1000=1450$ | $4005-1000=3005$ |
| $8233-5000=3233$ | $5776-5000=776$ |
| $4900-1000=3900$ | $3200-1000=2200$ |



How many equations can you solve in I minute?
SUBTRACTION FACTS TO 10.000
$\qquad$
1437-2= $\qquad$
$35-10=$ $\qquad$
12-6=
$347-347=$ $\qquad$
1258-8= $\qquad$
9000-5000=
2815-|= $\qquad$
90-7= $\qquad$
| $145-4=$ $\qquad$
50-25= $\qquad$
||-6= $\qquad$
8000-2000=
$34-17=$ $\qquad$
16-8= $\qquad$
$100-40=$ $\qquad$
$1000-100=$ $\qquad$
$404-390=$ $\qquad$
546-300= $\qquad$
80-3= $\qquad$
$400-100=$
4584-4580= $\qquad$
609-0= $\qquad$
2000-1000=
$1213-1210=$ $\qquad$
$100-50=$ $\qquad$
56-8= $\qquad$
459-456= $\qquad$
$100-80=$ $\qquad$
700-400=
$30-10=$ $\qquad$
80-5= $\qquad$
13-7= $\qquad$
458-455= $\qquad$
533-322= $\qquad$
50-7= $\qquad$
$184-q=$ $\qquad$
6000-3000= $\qquad$
5245-2= $\qquad$
322-200=

4566-|= $\qquad$
3244-1000= 375-75= $\qquad$
$53-4=$ $\qquad$
390-3= $\qquad$
$57-54=$ $\qquad$
$364-12=$ $\qquad$
150-70= $\qquad$
1200-1200= 20-6= $\qquad$
$775-124=$ $\qquad$
$787-400=$ $\qquad$
$743-740=$ $\qquad$
1000-600= 40-8= $\qquad$
387-2= $\qquad$
62-26= $\qquad$
2445-20= $\qquad$
Ч4-18= $\qquad$
1592-8= $\qquad$

## additional resources

Are you looking for more resources to reinforce these mental math strategies in your classroom? The resources below will reinforce the strategies that are outlined in this guide.

THE ADDITION STATION

https://www.teacherspayteachers.com/Product/The-Addition-Station-Fourth-Grade-1833|3|

## ADDITION STRATEGIES TASK CARDS <br> 

https://www.teacherspayteachers.com/Product/Addition-Strategies-Task-Cards-Fourth-Grade-Bundle-Sums-to-10000-3860513

## THE SUBTRACTION STATION


https://www.teacherspayteachers.com/Product/The-Subtraction-Station-Fourth-Grade-2263806

