Grade 3

AVAILABLE IN SPANISH

Reveal MATH ®

Differentiation
**Sampler**

McGraw Hill

Differentiation
Resource Book

Every lesson includes pages to Reinforce Understanding and Extend Thinking to support lesson differentiation. These are available to print digitally as well. Additional differentiation resources are available digitally and within the Workstation Kit.

Assessment Resource Book

The Assessment Resource Book provides the following resources. Assessments can be completed in print or digitally.

COURSE ASSESSMENTS

Course Diagnostic assesses student's readiness for grade-level content as they enter a new school year.

Benchmark Assessments help monitor student progress towards grade-level expectations.

Summative Assessment evaluates student learning at the end of each grade level.

UNIT ASSESSMENTS

Unit Readiness Diagnostics assess each student's proficiency with pre-requisite skills to determine readiness for the unit content.

Unit Assessments measure multiple depths of knowledge to assess for various stages of understanding. Two forms of the assessment allow for flexibilty.

Performance Tasks assess students' understanding of big ideas and their ability to apply unit content to solve real-world problems. In addition, practice performance tasks are available as part of the unit review materials.

LESSON ASSESSMENTS

Exit Tickets assess student understanding of lesson content and drive differentiation.

Differentiation Resource Book

Unit 2: Use Place Value to Fluently Add and Subtract within 1,000
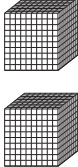
- Reinforce Understanding
- Extend Thinking

Represent 4-Digit Numbers

Name _____

Review

You can use place value to represent 4-digit numbers.

thousands	hundreds	tens	ones

thousands	hundreds	tens	ones
2	1	4	4
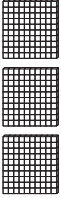
standard form: 2,144

written form: two thousand, one hundred forty-four

expanded form: 2,000 + 100 + 40 + 4
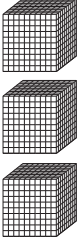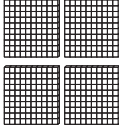
Fill in the number represented by the base-ten blocks. Write the number in expanded and word form.

1.

thousands	hundreds	tens	ones

thousands	hundreds	tens	ones

_____

_____

_____

2.

thousands	hundreds	tens	ones

thousands	hundreds	tens	ones

_____

_____

_____

Represent 4-Digit Numbers

Name _____

Use the digits to write a number with the greatest possible value. Then write a number with the least possible value. Write each number in standard form, expanded form, and word form.

<center>

5   9   8   6

</center>

1. Greatest: _____

Expanded form: _____

Word form: _____

_____

2. Least: _____

Expanded form: _____

Word form: _____

_____

<center>

8   1   5   7

</center>

3. Greatest: _____

Expanded form: _____

Word form: _____

_____

4. Least: _____

Expanded form: _____

Word form: _____

_____

Round Multi-Digit Numbers

Name _____

Review

You can use a number line or place-value to round numbers. Round 487 to the nearest 10 and nearest 100.

Use a number line to round to the nearest 10.	Use place value to round to the nearest 100. Look at the tens place when you round to the nearest 100.
480 485 490 500 487 487 rounds up to 490.	4**8**7 ↓ 500 487 rounds up to 500
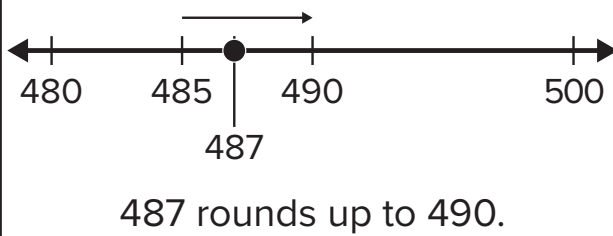
Use place value to round.

1. Round 468 to the nearest ten. _____

468

400   450   470   500
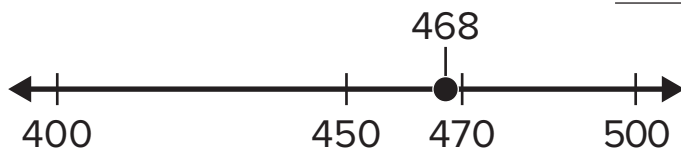
2. Round 468 to the nearest hundred. _____

400   450   468   500
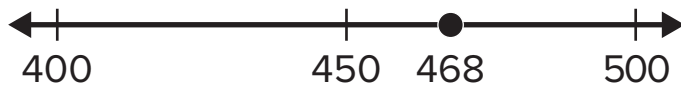
Use place value to round.

3. Round 47 to the nearest ten. _____

4. Round 23 to the nearest ten. _____

5. Round 634 to the nearest hundred. _____

6. Round 219 to the nearest hundred. _____

Round Multi-Digit Numbers

Name _____

Solve.

1. Keisha is shopping. She has $100. She wants to buy colored pencils for $16, 3 sketchpads for $12 each, a set of paints for $15, and a set of paintbrushes for $19. Show how Keisha can use rounding to make sure that she has enough money.

Write three numbers possible for each.

2. A number rounded up to the nearest ten is 20.

_____

3. A number rounded down to the nearest ten is 10.

_____

4. A number rounded up to the nearest hundred is 100.

_____

Estimate Sums and Differences

Name _____

> ## Review
>
> **You can use compatible numbers to estimate when an exact sum or difference is not needed.**
>
> Mr. Conner spent $122 at the hardware store. Mrs. Basminji spent $276. About how much more did Mrs. Basminji spend?
>
> $$\$276 - \$122 = ?$$
>
> $$\downarrow \qquad \downarrow$$
>
> $$\$275 - \$125 = \$150$$
>
> Mrs. Basminji spent about $150 more.

Estimate the difference. Show your work.

1. $298 - 207 = ?$

2. $? = 496 - 104$

Estimate the sum. Show your work.

3. $? = 416 + 147$

4. $274 + 516 = ?$

Estimate Sums and Differences

Name _____

Estimate or use compatible numbers to solve. Show your work.

1. Nilda has 536 packages to ship. If she has shipped 94 packages in each of the last 2 hours, about how many packages does she have left to ship?

_____ packages

Show another way to adjust numbers to solve the problem.

_____ packages

2. Marcella owns a pack and ship store. Her goal is to move 275 packages a day. If, she has shipped 61 packages in each of the last 3 hours, about how many more packages does she have to move to meet her goal?

_____ packages

Show another way to adjust numbers to solve the problem.'

_____ packages

Use Addition Properties to Add

Name _____

Review

You can use properties of addition to help you add.
$63 + 30 + 17 = ?$

You can switch the order of the addends and the sum will be the same.	You can group the addends in any way and the sum will be the same.
$63 + 30 + 17 = 30 + 63 + 17$	$17 + 63 + 30 = ?$ $80 + 30 = 110$

Complete using properties of addition.

1. $315 + 435 = 435 + $ _____

2. $273 + 28 + $ _____ $ = 56 + 28 + 273$

3. _____ $ + 23 + 12 = 12 + $ _____ $ + 72$

4. $100 + $ _____ $ + 23 = 23 + 407 + $ _____

Show one way to group the addends to solve. Solve

5. $145 + 13 + 387 = $ _____

6. $125 + 228 + 72 = $ _____

Use Addition Properties to Add

Name _____

Solve. Show your work.

1. Mr. Reneke is a manager at the Holiday Hotel and is checking his bank deposit. He is adding $205, $450, and $295. How can he use both properties of addition to add more efficiently?

2. Kiara is checking hotel laundry receipts for one of her customers. His laundry charges for the past three months were $150, $175, and $125. How can she use both properties of addition to add more efficiently?

3. Nestor works at the Holiday House restaurant. He is checking the total cost of the tableware he ordered. He ordered dinner plates for $415, bread plates for $185, and bowls for $160. How can he use both properties of addition to add more efficiently?

Use Addition Properties to Add

Name _____

Review

You can use addition patterns to find and check sums. When you add **even numbers** and **odd numbers,** there are patterns in the sums.

even + even = even	odd + odd = even	even + odd = odd
$14 + 22 = 36$	$57 + 55 = 112$	$422 + 177 = 599$
$342 + 224 = 566$	$247 + 255 = 502$	**odd + even = odd** $383 + 300 = 683$

Find and check the sum. Match to the correct statement.

1. $75 + 11 =$ _____   even = even + even

2. $64 + 14 =$ _____

3. $29 + 29 =$ _____   even = odd + odd

4. $42 + 38 =$ _____

5. $221 + 314 =$ _____   odd + even = odd

6. $44 + 17 =$ _____

7. $23 + 14 =$ _____   even + odd = odd

8. $302 + 101 =$ _____

Use Addition Properties to Add

Name _____

What Addition Equations Can I Be? My addends are numbers from 24 through 29. My sum is odd. What are the possible equations?

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____

Use Partial Sums to Add

Name _____

Review

You can use the partial sums strategy to add. One way to break apart numbers is by place value.

addends in a row	addends stacked
$158 + 256 = ?$ $100 + 200 = 300$ $50 + 50 = 100$ $8 + 6 = 14$ $300 + 100 + 14 = 414$	$$\begin{array}{r} 1\ 5\ 8 \\ +\ 2\ 4\ 6 \\ \hline \end{array}$$ $100 + 200 \longrightarrow \mathbf{3\ 0\ 0}$ $50 + 50 \longrightarrow \mathbf{1\ 0\ 0}$ $8 + 6 \longrightarrow +\ \ \mathbf{1\ 4}$ $\overline{\mathbf{4\ 1\ 4}}$

Break apart each addend. Then add to find the sum.

1. $324 + 135 =$ _____

_____ $+ 100 =$ _____

$20 +$ _____ $=$ _____

_____ $+$ _____ $=$ _____

_____ $+$ _____ $+$ _____ $=$ _____

Stack the addends to find the sum. Show your work.

2.
$$\begin{array}{r} 1\ 6\ 3 \\ +\ 2\ 2\ 5 \\ \hline \\ \\ + \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4\ 5\ 6 \\ +\ 3\ 2\ 2 \\ \hline \\ \\ + \\ \hline \end{array}$$

Use Partial Sums to Add

Name _____

Use a 0-9 spinner. Spin to make two 3-digit addends. Show how to use the partial sums strategy to find the sum.

1. _____ + _____ = _____

2. _____ + _____ = _____

3. _____ + _____ = _____

4. _____ + _____ = _____

Decompose to Subtract

Name _____

Review

Numbers can be decomposed or "broken apart" in different ways to find the difference.

One Way	Another Way
$353 - \mathbf{184} = ?$	$353 - \mathbf{184} = ?$
$353 - \mathbf{100} = 253$	$353 - \mathbf{153} = 200$
$253 - \mathbf{80} = 173$	$200 - \mathbf{30} = 170$
$173 - \mathbf{4} = 169$	$170 - \mathbf{1} = 169$
$353 - 184 = 169$	$353 - 184 = 169$

Pick a number that is easy to subtract from a part when choosing compatible numbers.

Decompose one number to subtract.

1. $302 - 162 =$ _____

2. _____ $= 253 - 132$

3. $422 - 233 =$ _____

4. $383 - 282 =$ _____

Decompose to Subtract

Name _____

Roll a number cube to generate two 3-digit numbers. Write a subtraction problem with the greatest number as the first number. Show two ways to decompose one number to subtract.

1. _____ − _____ = _____

2. _____ − _____ = _____

3. _____ − _____ = _____

Adjust Numbers to Add or Subtract

Name _____

Review

Adjust addition and subtraction equation numbers to numbers that are easier to work with.

> Subtract from or add the same amount to both numbers in subtraction equations.

Adjust Addition Equations	**Adjust Subtraction Equations**
$316 + 208 = ?$	$227 - 101 = ?$
-2 $\quad$ $+2$	-1 $\quad$ -1
$314 + 210 = \mathbf{524}$	$226 - 100 = \mathbf{126}$

Adjust both numbers to keep the sum or difference the same as the original.

Adjust each equation and find the difference. Show your work.

1. $479 - 98$ _____

2. $158 - 46$ _____

Adjust each addition equation and find the sum.

3. $367 + 154$ _____

4. $543 + 208$ _____

5. $224 + 279$ _____

Adjust Numbers to Add or Subtract

Name _____

A stadium is using game attendance numbers from last year to adjust their seating. The table shows the number of fans per game that attended to support each team.

Fans per Team
Jets – 291
Rams – 406
Jaguars – 187
Stars – 388
Bears – 347

1. The first game of the year is the Stars versus the Bears. Write an equation showing the number of fans the stadium can expect. Adjust the equation and solve.

_____

2. The last game of the year is the Rams versus the Jaguars. Write an equation showing the number of fans the stadium can expect. Adjust the equation and solve.

_____

3. For which game should the stadium expect the highest attendance. Why? Write, adjust, and solve an equation to support your answer.

_____

4. Which two teams have the most similar attendance? Explain your answer. Write, adjust, and solve an equation to support your reasoning.

_____

Use Addition to Subtract

Name _____

Review

You can solve a subtraction problem by writing a related addition equation with an unknown addend. The unknown difference is the same number as the unknown addend.

Solve. $543 - 261 = ?$

Think: 261 plus a number equals 543.

Write: $261 + ? = 543$

$$543 - 261 = \mathbf{282}$$
$$261 + \mathbf{282} = 543$$

Write a related addition equation for each subtraction equation.

1. $845 - 193 = ?$ _____

2. $679 - 291 = ?$ _____

3. $712 - 436 = ?$ _____

4. $363 - 192 = ?$ _____

Write a related addition equation for each subtraction equation. Solve each problem.

5. $734 - 122 = ?$ _____

6. $591 - 356 = ?$ _____

7. $304 - 277 = ?$ _____

8. $280 - 173 = ?$ _____

9. In a survey, 523 students had 2 siblings and 355 students had 1 sibling. How many more people had 2 siblings? _____

Use Addition to Subtract

Name _____

The table shows the results of a survey about pet ownership.

Pet Ownership
1 pet – 312 people
2 pets – 501 people
3 pets – 474 people
4 pets – 107 people

1. How many more people own 2 pets than 1 pet? Write both an addition and a subtraction equation.

   _____

2. How many more people own 2 pets than 3 pets? Write both an addition and a subtraction equation.

   _____

3. Sam uses the survey results to write a third subtraction equation. He uses the related addition equation $312 + ? = 474$ to help him find the missing difference. What question is Sam trying to answer? Explain.

   _____

4. What is a question you could ask about the number of people who own 4 pets? Write both an addition and a subtraction equation to answer your question.

Fluently Add Within 1,000

Name _____

Review

You can use different strategies to find a sum.

Partial Sums	Adjust Addends
$\begin{aligned} &3\ 5\ 2 \\ &+1\ 1\ 7 \\ \hline 300+100 \longrightarrow\ &4\ 0\ 0 \\ 50+10 \longrightarrow\ &6\ 0 \\ 2+7 \longrightarrow\ +&9 \\ \hline &\mathbf{4\ 6\ 9} \end{aligned}$	$352 + 117 = ?$ $\downarrow \qquad \downarrow$ $-2 \qquad +2$ $\downarrow \qquad \downarrow$ $350 + 119 = \mathbf{469}$

Use partial sums to find the sum.

1. $258 + 421$

Adjust the addends to find the sum.

2. $604 + 242$

Use a strategy to find each sum. Show your work.

3. $312 + 524$	**4.** $706 + 183$
5. $422 + 228$	**6.** $293 + 681$

Fluently Add Within 1,000

Name _____

On Monday, Kyle's family drove 247 miles. The next day, they drove 184 more miles than the day before. On the final day, they drove 312 miles.

1. How many miles did they drive on Tuesday? Solve the problem using partial sums.

2. How many miles did they drive during the first two days of the trip? Solve the problem using adjusted addends.

3. How many miles did they drive during the entire trip? Use either partial sums or adjusted addends.

Fluently Subtract Within 1,000

Name _____

Review

You can use different strategies to find a sum.

Solve. 459 − 261 = ?

Decompose One Number	Adjust Numbers	Related Addition Equation
$\begin{array}{r} 459 \\ -200 \\ \hline 259 \\ -\ \ 50 \\ \hline 209 \\ -\ \ 10 \\ \hline 199 \\ -\ \ \ 1 \\ \hline 198 \end{array}$	$459 + 1 = 460$ $261 + 1 = 262$ $\begin{array}{r} 460 \\ -260 \\ \hline 200 \\ -\ \ \ 2 \\ \hline 198 \end{array}$	$459 - 261 = \mathbf{198}$ $261 + \mathbf{198} = 459$

Use a strategy to find the difference. Show your work.

1. 253 − 125 = ? _____

3. 456 − 375 = ? _____

2. 867 − 342 = ? _____

4. 598 − 364 = ? _____

Fluently Subtract Within 1,000

Name _____

Jan sold a total of 752 tickets to baseball games this week. The table shows the number of tickets sold on the days of the week.

Day of the Week	Number of Tickets Sold
Sunday	225
Monday	216
Tuesday	83
Wednesday	47
Thursday	38
Friday	31
Saturday	?

1. Is the difference between the number of tickets Jan sold on Sunday and Wednesday greater than, less than, or equal to the difference between the number of tickets she sold on Monday and Thursday? Explain your answer.

2. How many tickets did Jan sell on Saturday? Show your work.

3. How many more tickets did Jan sell on the day she sold the most tickets than she did on the day she sold the least?

How Can I Solve Two-Step Problems Involving Addition and Subtraction?

Name _____

Review

Julius works at an orchard.for two days. On the first day, he picks 231 apples. On the second day, he picks 16 fewer apples than on first day. How many apples does he pick this week?

Step One	Step Two
How many applesdoes he pick on the second day?	How many apples does he pick this week?
$231 - 16 = a$	$231 + 215 = b$
$231 - 1 = 230$	$231 + 200 = 431$
$16 - 1 = 15$	$431 + 10 = 441$
$230 - 15 = 215$	$441 + 5 = 446$
He picks 215 apples on the second day.	He picks a total of 446 apples this week.

Solve. Show your work.

1. Lola walked Monday, Tuesday, and Wednesday for a total of 270 minutes. She walked 112 minutes on Monday and 86 minutes on Tuesday. How long did she walk Wednesday?

   _____

2. Liam drove 462 miles Friday. He drove 21 more miles on Saturday than he did on Friday. How many total miles did Liam drive those two days? _____

How Can I Solve Two-Step Problems Involving Addition and Subtraction?

Name _____

Renee worked Monday through Friday this week for a total of 40 hours. On Monday, she worked six hours. On Tuesday, she worked three more hours than on Monday. On Wednesday, she worked five fewer hours than on Tuesday. On Thursday, she worked seven more hours than on Wednesday.

1. How many hours did Renee work Monday through Thursday? Complete the table.

Day of the Week	Number of Hours Worked
Monday	6
Tuesday	
Wednesday	
Thursday	
Friday	

2. She is paid $8 per hour. How much did she get paid for each day? Complete the table.

Day of the Week	Wages ($)
Monday	48
Tuesday	
Wednesday	
Thursday	
Friday	

3. How much did Renee get paid for the week? _____