

# School-Home Letter

Dear Family,

During the next few weeks, our math class will be learning to estimate and solve addition and subtraction problems using numbers through hundreds.

You can expect to see homework that provides practice with adding and subtracting numbers as well as estimating sums and differences.

Here is a sample of how your child will be taught to estimate sums.

## Vocabulary

**estimate** A number close to an exact amount

**compatible numbers** Numbers that are easy to compute mentally and are close to the real numbers

### **MODEL** Estimate Sums

These are two methods we will be using to estimate sums.

$$367 + 512 = \blacksquare$$

**Use rounding.**

#### STEP 1

Round each number to the nearest hundred.

$$\begin{array}{r} 367 \rightarrow 400 \\ + 512 \rightarrow 500 \end{array}$$

#### STEP 2

Add the rounded numbers.

$$\begin{array}{r} 400 \\ + 500 \\ \hline 900 \end{array}$$

**Use compatible numbers.**

#### STEP 1

Find a compatible number for each addend.

$$\begin{array}{r} 105 \rightarrow 100 \\ + 362 \rightarrow 400 \end{array}$$

#### STEP 2

Add the numbers mentally.

$$\begin{array}{r} 100 \\ + 400 \\ \hline 500 \end{array}$$

### Tips

#### Choosing Compatible Numbers to Estimate Sums and Differences

A number may have more than one compatible number. For example, a compatible number for 362 could be 350 or 400. Whichever numbers are easiest to add or subtract mentally are the best ones to use for estimations.

## Activity

Provide books with large numbers of pages (3-digit numbers). Have your child use rounding and compatible numbers to estimate the total number of pages in the two books and compare how many more pages one book has than the other.

# Carta para la casa

Querida familia,

Durante las próximas semanas, en la clase de matemáticas aprenderemos a estimar y resolver problemas de suma y resta usando números hasta las centenas.

Llévare a la casa tareas con actividades para practicar la suma y la resta, y para estimar sumas y diferencias.

Este es un ejemplo de la manera como aprenderemos a estimar sumas.

## Vocabulario

**estimación** Un número que se aproxima a una cantidad exacta

**números compatibles** Números con los que es fácil calcular mentalmente y que se aproximan a los números reales

### **MODELO** Estimar sumas

Estos son dos métodos que usaremos para estimar sumas.

$$367 + 512 = \blacksquare$$

Usa el redondeo.

**PASO 1**

Redondea cada número a la centena más cercana.

$$\begin{array}{r} 367 \rightarrow 400 \\ + 512 \rightarrow 500 \end{array}$$

**PASO 2**

Suma los números que hallaste.

$$\begin{array}{r} 400 \\ + 500 \\ \hline 900 \end{array}$$

Usa números compatibles.

**PASO 1**

Halla un número compatible para cada sumando.

$$\begin{array}{r} 105 \rightarrow 100 \\ + 362 \rightarrow 400 \end{array}$$

**PASO 2**

Suma los números mentalmente.

$$\begin{array}{r} 100 \\ + 400 \\ \hline 500 \end{array}$$

**Pistas**

**Elegir números compatibles para estimar sumas y restas**

Un número puede tener más de un número compatible. Por ejemplo, un número compatible para 362 puede ser 350 o 400. Cualquiera de los números con el que sea más fácil sumar y restar mentalmente sirve para hacer estimaciones.

## Actividad

Dé a su hijo o hija dos libros que tengan bastantes páginas (con números de 3 dígitos). Pídale que use el redondeo y los números compatibles para estimar el total de páginas de los dos libros y para averiguar cuántas más páginas tiene un libro que el otro.

Name \_\_\_\_\_

### Number Patterns



COMMON CORE STANDARD MACC.3.OA.4.9

Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Find the sum. Then use the Commutative Property of Addition to write the related addition sentence.

1.  $9 + 2 = 11$       4.  $3 + 10 = \underline{\quad}$       7.  $8 + 9 = \underline{\quad}$   
 $\underline{2} + \underline{9} = \underline{11}$        $\underline{\quad} + \underline{\quad} = \underline{\quad}$        $\underline{\quad} + \underline{\quad} = \underline{\quad}$

2.  $4 + 7 = \underline{\quad}$       5.  $6 + 7 = \underline{\quad}$       8.  $0 + 4 = \underline{\quad}$   
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$        $\underline{\quad} + \underline{\quad} = \underline{\quad}$        $\underline{\quad} + \underline{\quad} = \underline{\quad}$

3.  $3 + 6 = \underline{\quad}$       6.  $7 + 5 = \underline{\quad}$       9.  $9 + 6 = \underline{\quad}$   
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$        $\underline{\quad} + \underline{\quad} = \underline{\quad}$        $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Is the sum even or odd? Write *even* or *odd*.

10.  $5 + 2$  \_\_\_\_\_      11.  $6 + 4$  \_\_\_\_\_      12.  $1 + 0$  \_\_\_\_\_  
 13.  $5 + 5$  \_\_\_\_\_      14.  $3 + 8$  \_\_\_\_\_      15.  $7 + 7$  \_\_\_\_\_

### Problem Solving REAL WORLD

16. Ada writes  $10 + 8 = 18$  on the board. Maria wants to use the Commutative Property of Addition to rewrite Ada's addition sentence. What number sentence should Maria write?

\_\_\_\_\_

17. Jackson says he has an odd number of model cars. He has 6 cars on one shelf and 8 cars on another shelf. Is Jackson correct? **Explain.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Lesson Check** (MACC.3.OA.4.9)

1. Marvella says that the sum of her addends is odd. Which of the following could be Marvella's addition problem?

- (A)  $5 + 3$                       (C)  $2 + 8$   
 (B)  $9 + 7$                       (D)  $5 + 6$

2. Which number sentence shows the Commutative Property of Addition?

$$3 + 9 = 12$$

- (A)  $12 - 9 = 3$     (C)  $9 + 3 = 12$   
 (B)  $12 = 8 + 4$     (D)  $12 - 3 = 9$

**Spiral Review** (Reviews MACC.2.MD.1.3, MACC.2.MD.3.8, MACC.2.MD.4.10)

3. Amber has 2 quarters, a dime, and 3 pennies. How much money does Amber have? (Grade 2)

- (A) 53¢                      (C) 63¢  
 (B) 58¢                      (D) 68¢

4. Josh estimates the height of his desk. Which is the best estimate? (Grade 2)

- (A) 1 foot                      (C) 5 feet  
 (B) 2 feet                      (D) 9 feet

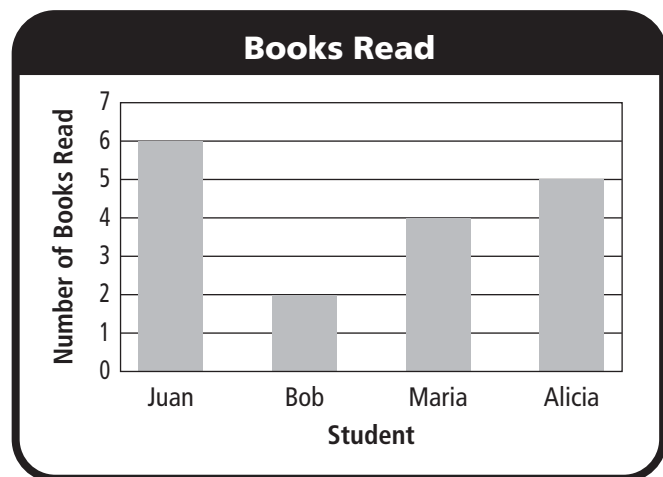
Use the bar graph for 5–6.

5. Who read the most books? (Grade 2)

- (A) Alicia  
 (B) Bob  
 (C) Juan  
 (D) Maria

6. Who read 3 more books than Bob? (Grade 2)

- (A) Alicia  
 (B) Juan  
 (C) Maria  
 (D) no one



Name \_\_\_\_\_

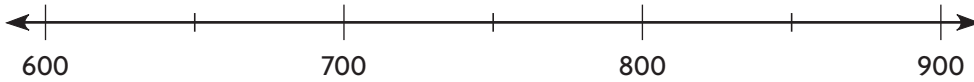
## Round to the Nearest Ten or Hundred



COMMON CORE STANDARD MACC.3.NBT.1.1

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Locate and label 739 on the number line.  
Round to the nearest hundred.



1. 739 is between 700 and 800.
2. 739 is closer to \_\_\_\_\_ than it is to \_\_\_\_\_.
3. 739 rounded to the nearest hundred is \_\_\_\_\_.

Round to the nearest ten and hundred.

- |                        |                        |                        |
|------------------------|------------------------|------------------------|
| 4. 363 _____<br>_____  | 5. 829 _____<br>_____  | 6. 572 _____<br>_____  |
| 7. 209 _____<br>_____  | 8. 663 _____<br>_____  | 9. 949 _____<br>_____  |
| 10. 762 _____<br>_____ | 11. 399 _____<br>_____ | 12. 402 _____<br>_____ |

### Problem Solving



13. The baby elephant weighs 435 pounds. What is its weight rounded to the nearest hundred pounds?  
\_\_\_\_\_
14. Jayce sold 218 cups of lemonade at his lemonade stand. What is 218 rounded to the nearest ten?  
\_\_\_\_\_

**Lesson Check** (MACC.3.NBT.1.1)

- One day, 758 people visited the Monkey House at the zoo. What is 758 rounded to the nearest hundred?
  - (A) 700
  - (B) 760
  - (C) 800
  - (D) 860
- Sami ordered 132 dresses for her store. What is 132 rounded to the nearest ten?
  - (A) 100
  - (B) 130
  - (C) 140
  - (D) 200

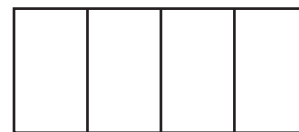
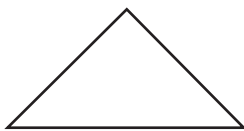
**Spiral Review** (Reviews MACC.2.G.1.1, MACC.2.G.1.3, MACC.3.OA.4.9)

- Which describes the number sentence? (Lesson 1.1)
- Which has an even sum? (Lesson 1.1)

$$6 + 0 = 6$$

- |                                      |             |
|--------------------------------------|-------------|
| (A) Commutative Property of Addition | (A) $7 + 4$ |
| (B) Identity Property of Addition    | (B) $2 + 6$ |
| (C) even + odd = odd                 | (C) $5 + 4$ |
| (D) odd + odd = odd                  | (D) $3 + 2$ |

- What name describes this shape? (Grade 2)
- What word describes the equal shares of the shape? (Grade 2)



- |               |             |
|---------------|-------------|
| (A) cone      | (A) wholes  |
| (B) cube      | (B) thirds  |
| (C) rectangle | (C) halves  |
| (D) triangle  | (D) fourths |

Name \_\_\_\_\_

## Estimate Sums



COMMON CORE STANDARD MACC.3.NBT.1.1

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use rounding or compatible numbers to estimate the sum.

$$\begin{array}{r} 1. \quad 198 \\ + 727 \\ \hline \end{array} \quad \begin{array}{r} \underline{200} \\ + \underline{725} \\ \hline 925 \end{array}$$

$$2. \quad \begin{array}{r} 87 \\ + 34 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 222 \\ + 203 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 52 \\ + 39 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 256 \\ + 321 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} 302 \\ + 412 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$7. \quad \begin{array}{r} 519 \\ + 124 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 790 \\ + 112 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 547 \\ + 326 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

10.  $325 + 458$   
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$

11.  $620 + 107$   
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$

## Problem Solving



12. Stephanie read 72 pages on Sunday and 83 pages on Monday. About how many pages did Stephanie read during the two days?

\_\_\_\_\_

13. Matt biked 345 miles last month. This month he has biked 107 miles. Altogether, about how many miles has Matt biked last month and this month?

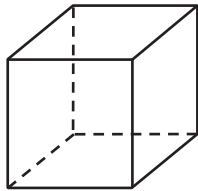
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**Lesson Check** (MACC.3.NBT.1.1)

- The McBrides drove 317 miles on one day and 289 on the next day. What is the best estimate of the number of miles the McBrides drove in all during the two days?
  - (A) 100
  - (B) 400
  - (C) 500
  - (D) 600
- Ryan counted 63 birds in his backyard last week. This week, he counted 71 birds in his backyard. About how many birds did Ryan count in all?
  - (A) about 70
  - (B) about 100
  - (C) about 130
  - (D) about 200

**Spiral Review** (Reviews MACC.2.G.1.1, MACC.3.NBT.1.1, MACC.3.OA.4.9)

- What name describes this shape? (Grade 2)
- Which has an odd sum? (Lesson 1.1)



- (A) cone
  - (B) cube
  - (C) quadrilateral
  - (D) square
- What is 503 rounded to the nearest hundred? (Lesson 1.2)
    - (A) 500
    - (B) 510
    - (C) 600
    - (D) 610
  - What is 645 rounded to the nearest ten? (Lesson 1.2)
    - (A) 600
    - (B) 640
    - (C) 650
    - (D) 700



Name \_\_\_\_\_

## Mental Math Strategies for Addition

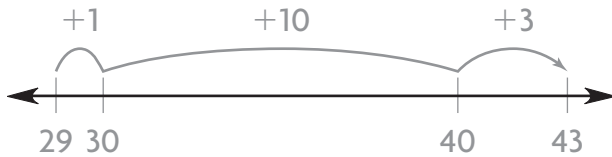


COMMON CORE STANDARD MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Count by tens and ones to find the sum.  
Use the number line to show your thinking.

1.  $29 + 14 = \underline{43}$



2.  $36 + 28 = \underline{\hspace{2cm}}$



3.  $45 + 26 = \underline{\hspace{2cm}}$



4.  $52 + 34 = \underline{\hspace{2cm}}$



Use mental math to find the sum.  
Draw or describe the strategy you use.

5.  $52 + 19 = \underline{\hspace{2cm}}$

6.  $122 + 306 = \underline{\hspace{2cm}}$

## Problem Solving REAL WORLD

7. Shelley spent 17 minutes washing the dishes. She spent 38 minutes cleaning her room. **Explain** how you can use mental math to find how long Shelley spent on the two tasks.

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8. It took Marty 42 minutes to write a book report. Then he spent 18 minutes correcting his report. **Explain** how you can use mental math to find how long Marty spent on his book report.

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**Lesson Check** (MACC.3.NBT.1.2)

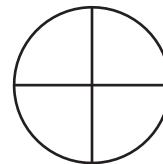
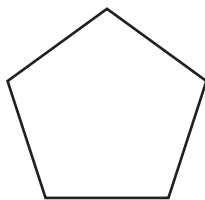
- Sylvia spent 36¢ for a pencil and 55¢ for a notepad. Use mental math to find how much she spent in all.
 

(A) 80¢                      (C) 90¢  
(B) 81¢                      (D) 91¢
- Will spent 24 minutes putting together a model plane. Then he spent 48 minutes painting the model. How long did Will spend working on the model plane?
 

(A) 62 minutes    (C) 72 minutes  
(B) 68 minutes    (D) 81 minutes

**Spiral Review** (Reviews MACC.2.G.1.1, MACC.2.G.1.3, MACC.3.OA.4.9, MACC.3.NBT.1.1)

- What name describes this shape?  
(Grade 2)
- What word describes the equal shares of the shape? (Grade 2)



- (A) hexagon  
(B) pentagon  
(C) quadrilateral  
(D) triangle
- (A) fourths  
(B) halves  
(C) sixths  
(D) thirds
- Tammy wrote an addition problem that has an odd sum. Which could be Tammy's addition problem?  
(Lesson 1.1)
 

(A)  $2 + 6$   
(B)  $3 + 5$   
(C)  $5 + 6$   
(D)  $7 + 7$
  - Greg counted 83 cars and 38 trucks in the mall parking lot. Which is the best estimate of the total number of cars and trucks Greg counted? (Lesson 1.3)
 

(A) 100  
(B) 110  
(C) 120  
(D) 130

Name \_\_\_\_\_

**Use Properties to Add**



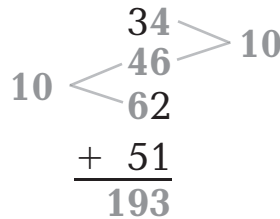
**COMMON CORE STANDARD** MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use addition properties and strategies to find the sum.

1.  $34 + 62 + 51 + 46 = \underline{193}$

2.  $27 + 68 + 43 = \underline{\hspace{2cm}}$



3.  $42 + 36 + 18 = \underline{\hspace{2cm}}$

4.  $74 + 35 + 16 + 45 = \underline{\hspace{2cm}}$

5.  $41 + 26 + 149 = \underline{\hspace{2cm}}$

6.  $52 + 64 + 28 + 44 = \underline{\hspace{2cm}}$

**Problem Solving**



7. A pet shelter has 26 dogs, 37 cats, and 14 gerbils. How many of these animals are in the pet shelter in all?

8. The pet shelter bought 85 pounds of dog food, 50 pounds of cat food, and 15 pounds of gerbil food. How many pounds of animal food did the pet shelter buy?

\_\_\_\_\_

\_\_\_\_\_

## Lesson Check (MACC.3.NBT.1.2)

1. At summer camp there are 52 boys, 47 girls, and 18 adults. How many people are at summer camp?  
 (A) 97  
 (B) 107  
 (C) 117  
 (D) 127
2. At camp, 32 children are swimming, 25 are fishing, and 28 are canoeing. How many children are swimming, fishing, or canoeing?  
 (A) 75  
 (B) 85  
 (C) 95  
 (D) 105

## Spiral Review (Reviews MACC.2.MD.1.3, MACC.3.NBT.1.1)

3. Four students estimated the width of the door to their classroom. Who made the best estimate? (Grade 2)  
 (A) Ted: 1 foot  
 (B) Hank: 3 feet  
 (C) Ann: 10 feet  
 (D) Maria: 15 feet
4. Four students estimated the height of the door to their classroom. Who made the best estimate? (Grade 2)  
 (A) Larry: 1 meter  
 (B) Garth: 2 meters  
 (C) Ida: 14 meters  
 (D) Jill: 20 meters
5. Jeff's dog weighs 76 pounds. What is the dog's weight rounded to the nearest ten pounds? (Lesson 1.2)  
 (A) 70 pounds  
 (B) 80 pounds  
 (C) 90 pounds  
 (D) 100 pounds
6. Ms. Kirk drove 164 miles in the morning and 219 miles in the afternoon. Which is the best estimate of the total number of miles she drove that day? (Lesson 1.3)  
 (A) 100 miles  
 (B) 200 miles  
 (C) 400 miles  
 (D) 500 miles

Name \_\_\_\_\_

## Use the Break Apart Strategy to Add



COMMON CORE STANDARD MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then use the break apart strategy to find the sum.

1. Estimate: 800

$$\begin{array}{r} 325 = 300 + 20 + 5 \\ + 494 = 400 + 90 + 4 \\ \hline 700 + 110 + 9 \end{array}$$

2. Estimate: \_\_\_\_\_

$$\begin{array}{r} 518 = \\ + 372 = \end{array}$$

3. Estimate: \_\_\_\_\_

$$\begin{array}{r} 473 = \\ + 123 = \end{array}$$

4. Estimate: \_\_\_\_\_

$$\begin{array}{r} 208 = \\ + 569 = \end{array}$$

5. Estimate: \_\_\_\_\_

$$\begin{array}{r} 731 = \\ + 207 = \end{array}$$

6. Estimate: \_\_\_\_\_

$$\begin{array}{r} 495 = \\ + 254 = \end{array}$$

## Problem Solving

Use the table for 7–8.

7. Laura is making a building using Set A and Set C. How many blocks can she use in her building?

\_\_\_\_\_

8. Clark is making a building using Set B and Set C. How many blocks can he use in his building?

\_\_\_\_\_

| Build-It Blocks |                  |
|-----------------|------------------|
| Set             | Number of Blocks |
| A               | 165              |
| B               | 188              |
| C               | 245              |

## Lesson Check (MACC.3.NBT.1.2)

- Arthur read two books last week. One book has 216 pages. The other book has 327 pages. Altogether, how many pages are in the two books?
  - (A) 533
  - (B) 543
  - (C) 633
  - (D) 643
- One skeleton in a museum has 189 bones. Another skeleton has 232 bones. How many bones in all are in the two skeletons?
  - (A) 311
  - (B) 312
  - (C) 411
  - (D) 421

## Spiral Review (Reviews MACC.2.MD.3.8, MACC.3.OA.4.9, MACC.3.NBT.1.2)

- Culver has 1 quarter, 3 dimes, and a penny. How much money does he have? (Grade 2)
  - (A) 41¢
  - (B) 55¢
  - (C) 56¢
  - (D) 86¢
- Felicia has 34 quarters, 25 dimes, and 36 pennies. How many coins does Felicia have? (Lesson 1.5)
  - (A) 75
  - (B) 85
  - (C) 95
  - (D) 105
- Jonas wrote  $9 + 8 = 17$ . Which number sentence shows the Commutative Property of Addition? (Lesson 1.1)
  - (A)  $9 + 0 = 9$
  - (B)  $8 + 9 = 17$
  - (C)  $17 - 9 = 8$
  - (D)  $17 - 8 = 9$
- At Kennedy School there are 37 girls and 36 boys in the third grade. How many students are in the third grade at Kennedy School? (Lesson 1.4)
  - (A) 63
  - (B) 73
  - (C) 81
  - (D) 91

Name \_\_\_\_\_

**Use Place Value to Add**

COMMON CORE STANDARD MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then find the sum.

1. Estimate: **600**

$$\begin{array}{r} \overset{1}{3}24 \\ + 285 \\ \hline 609 \end{array}$$

2. Estimate: \_\_\_\_\_

$$\begin{array}{r} 519 \\ + 347 \\ \hline \end{array}$$

3. Estimate: \_\_\_\_\_

$$\begin{array}{r} 323 \\ + 151 \\ \hline \end{array}$$

4. Estimate: \_\_\_\_\_

$$\begin{array}{r} 169 \\ + 354 \\ \hline \end{array}$$

5. Estimate: \_\_\_\_\_

$$\begin{array}{r} 148 \\ + 285 \\ \hline \end{array}$$

6. Estimate: \_\_\_\_\_

$$\begin{array}{r} 270 \\ + 453 \\ \hline \end{array}$$

7. Estimate: \_\_\_\_\_

$$\begin{array}{r} 275 \\ + 116 \\ \hline \end{array}$$

8. Estimate: \_\_\_\_\_

$$\begin{array}{r} 157 \\ + 141 \\ \hline \end{array}$$

9. Estimate: \_\_\_\_\_

$$\begin{array}{r} 127 \\ + 290 \\ \hline \end{array}$$

10. Estimate: \_\_\_\_\_

$$\begin{array}{r} 258 \\ + 565 \\ \hline \end{array}$$

11. Estimate: \_\_\_\_\_

$$\begin{array}{r} 311 \\ + 298 \\ \hline \end{array}$$

12. Estimate: \_\_\_\_\_

$$\begin{array}{r} 534 \\ + 256 \\ \hline \end{array}$$

**Problem Solving**  **REAL WORLD**

13. Mark has 215 baseball cards. Emily has 454 baseball cards. How many baseball cards do Mark and Emily have altogether?

\_\_\_\_\_

14. Jason has 330 pennies. Richie has 268 pennies. Rachel has 381 pennies. Which two students have more than 700 pennies combined?

\_\_\_\_\_

## Lesson Check (MACC.3.NBT.1.2)

1. There are 167 students in the third grade. The same number of students is in the fourth grade. How many third graders and fourth graders are there in all?  
 (A) 224  
 (B) 234  
 (C) 324  
 (D) 334
2. Jamal read a book with 128 pages. Then he read a book with 179 pages. How many pages did Jamal read in all?  
 (A) 397  
 (B) 307  
 (C) 297  
 (D) 207

## Spiral Review (MACC.3.NBT.1.1, MACC.3.NBT.1.2)

3. Adam travels 248 miles on Monday. He travels 167 miles on Tuesday. Which is the best estimate for the total number of miles Adam travels? (Lesson 1.3)  
 (A) 200  
 (B) 300  
 (C) 400  
 (D) 500
4. Wes made \$14, \$62, \$40, and \$36 mowing lawns. How much did he make in all mowing lawns?  
(Lesson 1.5)  
 (A) \$116  
 (B) \$152  
 (C) \$166  
 (D) \$188
5. There are 24 students in Mrs. Cole's class and 19 students in Mr. Garmen's class. How many students in all are in the two classes? (Lesson 1.4)  
 (A) 43  
 (B) 40  
 (C) 33  
 (D) 5
6. There were 475 children at the baseball game on Sunday. What is 475 rounded to the nearest ten?  
(Lesson 1.2)  
 (A) 400  
 (B) 470  
 (C) 480  
 (D) 500



Name \_\_\_\_\_

**Estimate Differences**

COMMON CORE STANDARD MACC.3.NBT.1.1

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use rounding or compatible numbers to estimate the difference.

$$\begin{array}{r} 1. \quad 40 \\ - 13 \\ \hline \end{array} \quad \begin{array}{r} \underline{40} \\ - \underline{10} \\ \hline 30 \end{array}$$

$$2. \quad \begin{array}{r} 762 \\ - 332 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 823 \\ - 242 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 98 \\ - 49 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 287 \\ - 162 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} 359 \\ - 224 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$7. \quad \begin{array}{r} 68 \\ - 31 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 476 \\ - 155 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 622 \\ - 307 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \underline{\quad} \\ \hline \end{array}$$

$$10. \quad 771 - 531$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$11. \quad 299 - 61$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

**Problem Solving**  **REAL WORLD**

12. Ben has a collection of 812 stamps. He gives his brother 345 stamps. About how many stamps does Ben have left?

\_\_\_\_\_

13. Savannah's bakery sold 284 pies in September. In October the bakery sold 89 pies. About how many more pies did Savannah's bakery sell in September than in October?

\_\_\_\_\_

## Lesson Check (MACC.3.NBT.1.1)

- Jorge has 708 baseball cards and 394 basketball cards. About how many more baseball cards than basketball cards does Jorge have?
  - (A) about 200
  - (B) about 300
  - (C) about 400
  - (D) about 500
- Danika is making necklaces. She has 512 silver beads and 278 blue beads. About how many more silver than blue beads does Danika have?
  - (A) about 200
  - (B) about 300
  - (C) about 400
  - (D) about 800

## Spiral Review (MACC.3.NBT.1.1, MACC.3.NBT.1.2)

- A store manager ordered 402 baseball caps and 122 ski caps. Which is the best estimate of the total number of caps the manager ordered? (Lesson 1.3)
  - (A) 300
  - (B) 500
  - (C) 600
  - (D) 700
- Autumn collected 129 seashells at the beach. What is 129 rounded to the nearest ten? (Lesson 1.2)
  - (A) 100
  - (B) 120
  - (C) 130
  - (D) 200
- Find the sum. (Lesson 1.7)

$$\begin{array}{r} 585 \\ + 346 \\ \hline \end{array}$$
  - (A) 239
  - (B) 821
  - (C) 900
  - (D) 931
- Julie made \$22, \$55, \$38, and \$25 babysitting. How much did she make in all babysitting? (Lesson 1.5)
  - (A) \$102
  - (B) \$115
  - (C) \$140
  - (D) \$165

Name \_\_\_\_\_

## Mental Math Strategies for Subtraction

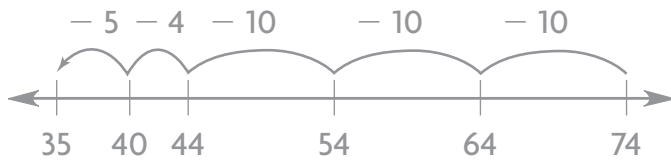


COMMON CORE STANDARD MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use mental math to find the difference.  
Draw or describe the strategy you use.

1.  $74 - 39 = \underline{35}$



2.  $93 - 28 = \underline{\hspace{2cm}}$

3.  $51 - 9 = \underline{\hspace{2cm}}$

4.  $76 - 23 = \underline{\hspace{2cm}}$

5.  $357 - 214 = \underline{\hspace{2cm}}$

6.  $285 - 99 = \underline{\hspace{2cm}}$

### Problem Solving REAL WORLD

7. Ruby has 78 books. Thirty-one of the books are on shelves. The rest are still packed in boxes. How many of Ruby's books are still in boxes?

8. Kyle has 130 pins in his collection. He has 76 of the pins displayed on his wall. The rest are in a drawer. How many of Kyle's pins are in a drawer?

\_\_\_\_\_

\_\_\_\_\_

## Lesson Check (MACC.3.NBT.1.2)

1. One day, a baker made 54 fruit pies. At the end of the day, only 9 of the pies were NOT sold. How many pies were sold that day?  
**(A)** 43                      **(C)** 63  
**(B)** 45                      **(D)** 65
2. George's father bought a 50-pound bag of wild bird seed. At the end of two weeks, 36 pounds of seed were left in the bag. How many pounds of seed had been used?  
**(A)** 14 pounds      **(C)** 26 pounds  
**(B)** 24 pounds      **(D)** 86 pounds

## Spiral Review (MACC.3.NBT.1.1, MACC.3.NBT.1.2)

3. For a party, Shaun blew up 36 red balloons, 28 white balloons, and 24 blue balloons. How many balloons did he blow up in all?  
(Lesson 1.5)  
**(A)** 78  
**(B)** 81  
**(C)** 87  
**(D)** 88
4. Tiffany has read 115 pages of her book. She has 152 pages left to read. How many pages are in the book? (Lesson 1.6)  
**(A)** 37  
**(B)** 267  
**(C)** 277  
**(D)** 367
5. The flower shop had 568 flowers on Monday. By Tuesday, the shop had 159 flowers left. About how many flowers had been sold?  
(Lesson 1.8)  
**(A)** about 200  
**(B)** about 300  
**(C)** about 400  
**(D)** about 500
6. There are 383 books in one section of the school library. Of the books, 165 are fiction books. Which is the best estimate of the number of books in that section that are NOT fiction? (Lesson 1.8)  
**(A)** about 200  
**(B)** about 300  
**(C)** about 400  
**(D)** about 500

Name \_\_\_\_\_

**Use Place Value to Subtract**

COMMON CORE STANDARD MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then find the difference.

|  |   |   |   |
|--|---|---|---|
| 1. Estimate: <b>500</b><br>$\begin{array}{r} 585 \\ - 119 \\ \hline \end{array}$ | 2. Estimate: _____<br>$\begin{array}{r} 738 \\ - 227 \\ \hline \end{array}$ | 3. Estimate: _____<br>$\begin{array}{r} 651 \\ - 376 \\ \hline \end{array}$ | 4. Estimate: _____<br>$\begin{array}{r} 815 \\ - 281 \\ \hline \end{array}$ |
|--|---|---|---|

|   |   |   |   |
|---|---|---|---|
| 5. Estimate: _____<br>$\begin{array}{r} 487 \\ - 290 \\ \hline \end{array}$ | 6. Estimate: _____<br>$\begin{array}{r} 936 \\ - 329 \\ \hline \end{array}$ | 7. Estimate: _____<br>$\begin{array}{r} 270 \\ - 128 \\ \hline \end{array}$ | 8. Estimate: _____<br>$\begin{array}{r} 364 \\ - 177 \\ \hline \end{array}$ |
|---|---|---|---|

|   |  |  |  |
|---|--|--|--|
| 9. Estimate: _____<br>$\begin{array}{r} 627 \\ - 253 \\ \hline \end{array}$ | 10. Estimate: _____<br>$\begin{array}{r} 862 \\ - 419 \\ \hline \end{array}$ | 11. Estimate: _____<br>$\begin{array}{r} 726 \\ - 148 \\ \hline \end{array}$ | 12. Estimate: _____<br>$\begin{array}{r} 543 \\ - 358 \\ \hline \end{array}$ |
|---|--|--|--|

**Problem Solving**  **REAL WORLD**

13. Mrs. Cohen has 427 buttons. She uses 195 buttons to make puppets. How many buttons does Mrs. Cohen have left?

14. There were 625 ears of corn and 247 tomatoes sold at a farm stand. How many more ears of corn were sold than tomatoes?

## Lesson Check (MACC.3.NBT.1.2)

- On Saturday, 453 people go to a school play. On Sunday, 294 people go to the play. How many more people go to the play on Saturday?
  - (A) 159
  - (B) 169
  - (C) 259
  - (D) 747
- Corey has 510 marbles. He fills one jar with 165 marbles. How many of Corey's marbles are NOT in the jar?
  - (A) 675
  - (B) 455
  - (C) 350
  - (D) 345

## Spiral Review (MACC.3.NBT.1.1, MACC.3.NBT.1.2)

- Pattie brought 64 peppers to sell at the farmers' market. There were 12 peppers left at the end of the day. How many peppers did Pattie sell? (Lesson 1.9)
  - (A) 50
  - (B) 52
  - (C) 62
  - (D) 78
- An airplane flies 617 miles in the morning. Then it flies 385 miles in the afternoon. About how many more miles does the airplane fly in the morning? (Lesson 1.8)
  - (A) about 100 miles
  - (B) about 200 miles
  - (C) about 300 miles
  - (D) about 900 miles
- What is the unknown number?  
(Lesson 1.5)  
 $(\blacksquare + 4) + 59 = 70$ 
  - (A) 4
  - (B) 6
  - (C) 7
  - (D) 8
- Dexter has 128 shells. He needs 283 more shells for his art project. How many shells will Dexter use for his art project? (Lesson 1.6)
  - (A) 155
  - (B) 165
  - (C) 401
  - (D) 411

Name \_\_\_\_\_

**Combine Place Values to Subtract**

COMMON CORE STANDARD MACC.3.NBT.1.2

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then find the difference.

1. Estimate: **200**

$$\begin{array}{r} 476 \\ - 269 \\ \hline \end{array}$$

2. Estimate: \_\_\_\_\_

$$\begin{array}{r} 615 \\ - 342 \\ \hline \end{array}$$

3. Estimate: \_\_\_\_\_

$$\begin{array}{r} 508 \\ - 113 \\ \hline \end{array}$$

4. Estimate: \_\_\_\_\_

$$\begin{array}{r} 716 \\ - 229 \\ \hline \end{array}$$

5. Estimate: \_\_\_\_\_

$$\begin{array}{r} 700 \\ - 326 \\ \hline \end{array}$$

6. Estimate: \_\_\_\_\_

$$\begin{array}{r} 325 \\ - 179 \\ \hline \end{array}$$

7. Estimate: \_\_\_\_\_

$$\begin{array}{r} 935 \\ - 813 \\ \hline \end{array}$$

8. Estimate: \_\_\_\_\_

$$\begin{array}{r} 358 \\ - 292 \\ \hline \end{array}$$

9. Estimate: \_\_\_\_\_

$$\begin{array}{r} 826 \\ - 617 \\ \hline \end{array}$$

10. Estimate: \_\_\_\_\_

$$\begin{array}{r} 900 \\ - 158 \\ \hline \end{array}$$

11. Estimate: \_\_\_\_\_

$$\begin{array}{r} 607 \\ - 568 \\ \hline \end{array}$$

12. Estimate: \_\_\_\_\_

$$\begin{array}{r} 973 \\ - 869 \\ \hline \end{array}$$

**Problem Solving**  **REAL WORLD**

13. Bev scored 540 points. This was 158 points more than Ike scored. How many points did Ike score?

\_\_\_\_\_

14. A youth group earned \$285 washing cars. The group's expenses were \$79. How much profit did the group make washing cars?

\_\_\_\_\_

## Lesson Check (MACC.3.NBT.1.2)

1. A television program lasts for 120 minutes. Of that time, 36 minutes are taken up by commercials. What is the length of the actual program without the commercials?  
**(A)** 84 minutes    **(C)** 104 minutes  
**(B)** 94 minutes    **(D)** 156 minutes
2. Syd spent 215 minutes at the library. Of that time, he spent 120 minutes on the computer. How much of his time at the library did Sid NOT spend on the computer?  
**(A)** 85 minutes    **(C)** 105 minutes  
**(B)** 95 minutes    **(D)** 335 minutes

## Spiral Review (MACC.3.NBT.1.1, MACC.3.NBT.1.2)

3. Xavier's older brother has 568 songs on his music player. To the nearest hundred, about how many songs are on the music player? (Lesson 1.2)  
**(A)** 500  
**(B)** 600  
**(C)** 700  
**(D)** 800
4. The students traveled to the zoo in 3 buses. One bus had 47 students. The second bus had 38 students. The third bus had 43 students. How many students in all were on the three buses? (Lesson 1.5)  
**(A)** 108  
**(B)** 118  
**(C)** 128  
**(D)** 138
5. Callie has 83 postcards in her collection. Of the postcards, 24 are from Canada. The rest of the postcards are from the United States. How many of the postcards are from the United States? (Lesson 1.9)  
**(A)** 58  
**(B)** 59  
**(C)** 61  
**(D)** 69
6. There were 475 seats set up for the school play. At one performance, 189 of the seats were empty. How many seats were filled at that performance? (Lesson 1.10)  
**(A)** 286  
**(B)** 296  
**(C)** 314  
**(D)** 396



Name \_\_\_\_\_

**Problem Solving • Model Addition and Subtraction**

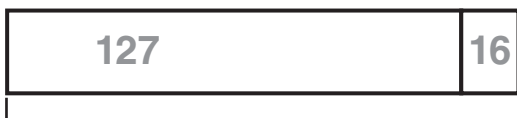


COMMON CORE STANDARD MACC.3.OA.4.8

Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Use the bar model to solve the problem.

1. Elena went bowling. Elena’s score in the first game was 127. She scored 16 more points in the second game than in the first game. What was her total score?



▲ points

$$127 + 16 = \blacktriangle$$

$$143 = \blacktriangle$$



■ points

$$127 + 143 = \blacksquare$$

$$270 = \blacksquare$$

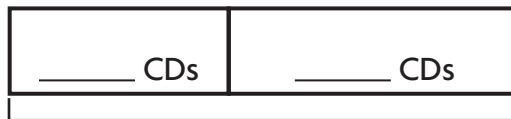
270 points

2. Mike’s Music sold 287 CDs on the first day of a 2-day sale. The store sold 96 more CDs on the second day than on the first day. How many CDs in all were sold during the 2-day sale?



★ CDs

★ = \_\_\_\_\_



◆ CDs

◆ = \_\_\_\_\_

\_\_\_\_\_

## Lesson Check (MACC.3.OA.4.8)

- Ms. Hinely picked 46 tomatoes from her garden on Friday. On Saturday, she picked 17 tomatoes. How many tomatoes did she pick in all?  
**(A)** 109                      **(C)** 53  
**(B)** 63                         **(D)** 29
- Rosa read 57 pages of a book in the morning. She read 13 fewer pages in the afternoon. How many pages did Rosa read in the afternoon?  
**(A)** 44                         **(C)** 70  
**(B)** 60                         **(D)** 83

## Spiral Review (MACC.3.NBT.1.1, MACC.3.NBT.1.2)

- Mike has 57 action figures. Alex has 186 action figures. Which is the best estimate of the number of action figures Mike and Alex have altogether? (Lesson 1.8)  
**(A)** 150  
**(B)** 250  
**(C)** 350  
**(D)** 400
- There are 500 sheets of paper in the pack Hannah bought. She has used 137 sheets already. How many sheets of paper does Hannah have left? (Lesson 1.11)  
**(A)** 363  
**(B)** 463  
**(C)** 400  
**(D)** 637
- There were 378 visitors to the science museum on Friday. There were 409 visitors on Saturday. How many more people visited the museum on Saturday? (Lesson 1.7)  
**(A)** 25  
**(B)** 31  
**(C)** 171  
**(D)** 787
- Ravi scores 247 points in a video game. How many more points does he need to score a total of 650? (Lesson 1.10)  
**(A)** 897  
**(B)** 430  
**(C)** 417  
**(D)** 403

## Chapter 1 Extra Practice

### Lesson 1.1

Find the sum. Then use the Commutative Property of Addition to write the related addition sentence.

1.  $5 + 7 = \underline{\quad}$

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

2.  $4 + 9 = \underline{\quad}$

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

3.  $0 + 5 = \underline{\quad}$

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

### Lesson 1.2

Round to the nearest ten and hundred.

1. 622 \_\_\_\_\_

\_\_\_\_\_

2. 307 \_\_\_\_\_

\_\_\_\_\_

3. 867 \_\_\_\_\_

\_\_\_\_\_

### Lesson 1.3

Use rounding or compatible numbers to estimate the sum.

1. 
$$\begin{array}{r} 24 \\ + 82 \\ \hline \end{array} \quad + \begin{array}{r} \underline{\quad} \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 112 \\ + 279 \\ \hline \end{array} \quad + \begin{array}{r} \underline{\quad} \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 583 \\ + 169 \\ \hline \end{array} \quad + \begin{array}{r} \underline{\quad} \\ \hline \end{array}$$

### Lesson 1.4

Use mental math to find the sum.

1.  $71 + 99 = \underline{\quad}$

2.  $38 + 58 = \underline{\quad}$

3.  $307 + 418 = \underline{\quad}$

### Lesson 1.5

Use addition properties and strategies to find the sum.

1.  $13 + 47 + 21 + 79 = \underline{\quad}$

2.  $55 + 18 + 15 + 43 = \underline{\quad}$

## Lessons 1.6 - 1.7

Estimate. Then find the sum.

1. Estimate: \_\_\_\_\_

$$\begin{array}{r} 325 \\ + 389 \\ \hline \end{array}$$

2. Estimate: \_\_\_\_\_

$$\begin{array}{r} 219 \\ + 445 \\ \hline \end{array}$$

3. Estimate: \_\_\_\_\_

$$\begin{array}{r} 437 \\ + 146 \\ \hline \end{array}$$

4. Estimate: \_\_\_\_\_

$$\begin{array}{r} 308 \\ + 593 \\ \hline \end{array}$$

## Lesson 1.8

Use rounding or compatible numbers to estimate the difference.

1.  $\begin{array}{r} 82 \\ - 44 \\ \hline \end{array}$  \_\_\_\_\_

2.  $\begin{array}{r} 192 \\ - 78 \\ \hline \end{array}$  \_\_\_\_\_

3.  $\begin{array}{r} 618 \\ - 369 \\ \hline \end{array}$  \_\_\_\_\_

## Lesson 1.9

Use mental math to find the difference.

1.  $92 - 41 =$  \_\_\_\_\_

2.  $451 - 125 =$  \_\_\_\_\_

3.  $703 - 359 =$  \_\_\_\_\_

## Lessons 1.10 - 1.11

Estimate. Then find the difference.

1. Estimate: \_\_\_\_\_

$$\begin{array}{r} 622 \\ - 354 \\ \hline \end{array}$$

2. Estimate: \_\_\_\_\_

$$\begin{array}{r} 506 \\ - 189 \\ \hline \end{array}$$

3. Estimate: \_\_\_\_\_

$$\begin{array}{r} 763 \\ - 295 \\ \hline \end{array}$$

4. Estimate: \_\_\_\_\_

$$\begin{array}{r} 848 \\ - 209 \\ \hline \end{array}$$

## Lesson 1.12

1. Sara read 81 pages in her book. Colin read 64 pages in his book. How many more pages did Sara read than Colin?

2. Herb planted 28 pea plants. He planted 15 fewer tomato plants. How many pea and tomato plants did Herb plant in all?