

Name _____

Number Patterns

COMMON CORE STANDARD CC.3.OA.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 

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.**

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Name _____

Round to the Nearest Ten or Hundred

COMMON CORE STANDARD CC.3.NBT.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.



- 739 is between 700 and 800.
- 739 is closer to _____ than it is to _____.
- 739 rounded to the nearest hundred is _____.

Round to the nearest ten and hundred.

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

Problem Solving

REAL WORLD

- The baby elephant weighs 435 pounds. What is its weight rounded to the nearest hundred pounds?

- Jayce sold 218 cups of lemonade at his lemonade stand. What is 218 rounded to the nearest ten?

Name _____

Estimate Sums

COMMON CORE STANDARD CC.3.NBT.1

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

Use rounding or compatible numbers to estimate the sum.

1.	$\begin{array}{r} 198 \\ + 727 \\ \hline \end{array}$	$\begin{array}{r} 200 \\ + 725 \\ \hline 925 \end{array}$	2.	$\begin{array}{r} 87 \\ + 34 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	3.	$\begin{array}{r} 222 \\ + 203 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$
----	-------------------------------------------------------	-----------------------------------------------------------	----	-----------------------------------------------------	-------------------------------------------------------------------------	----	-------------------------------------------------------	-------------------------------------------------------------------------

4.	$\begin{array}{r} 52 \\ + 39 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	5.	$\begin{array}{r} 256 \\ + 321 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	6.	$\begin{array}{r} 302 \\ + 412 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$
----	-----------------------------------------------------	-------------------------------------------------------------------------	----	-------------------------------------------------------	-------------------------------------------------------------------------	----	-------------------------------------------------------	-------------------------------------------------------------------------

7.	$\begin{array}{r} 519 \\ + 124 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	8.	$\begin{array}{r} 790 \\ + 112 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	9.	$\begin{array}{r} 547 \\ + 326 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$
----	-------------------------------------------------------	-------------------------------------------------------------------------	----	-------------------------------------------------------	-------------------------------------------------------------------------	----	-------------------------------------------------------	-------------------------------------------------------------------------

10. $325 + 458$

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

11. $620 + 107$

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

Problem Solving**REAL WORLD**

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?

Name _____

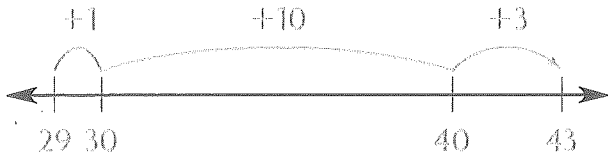
Mental Math Strategies for Addition

COMMON CORE STANDARD CC.3.NBT.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

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.

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.

Name _____

Use Properties to Add

COMMON CORE STANDARD CC.3.NBT.2

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

Use addition properties and strategies to find the sum.

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

$$\begin{array}{r}
 34 \\
 46 \\
 62 \\
 + 51 \\
 \hline
 193
 \end{array}$$

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?

Name _____

Use the Break Apart Strategy to Add

COMMON CORE STANDARD CC.3.NBT.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.

(AKA - Expanded Notation)

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

Name _____

Use Place Value to Add

COMMON CORE STANDARD CC.3.NBT.2

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

~~Estimate.~~ Then **F**ind the sum.1. Estimate: 600

$$\begin{array}{r} 1 \\ 324 \\ + 285 \\ \hline 609 \end{array}$$

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?

Name _____

Estimate Differences

COMMON CORE STANDARD CC.3.NBT.1

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

Use rounding or compatible numbers to estimate the difference.

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

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

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

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

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

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

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

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

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

$$10. \quad \begin{array}{r} 771 \\ - 531 \\ \hline \end{array}$$

$$11. \quad \begin{array}{r} 299 \\ - 61 \\ \hline \end{array}$$

Problem Solving

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?

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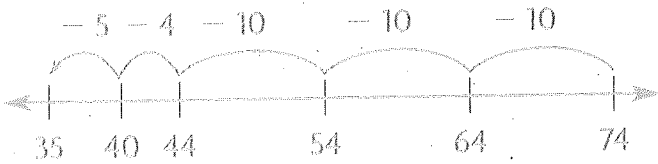
Mental Math Strategies for Subtraction

COMMON CORE STANDARD CC.3.NBT.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?

Name _____

Use Place Value to Subtract

COMMON CORE STANDARD CC.3.NBT.2

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

~~Estimate~~. Then find the difference.1. ~~Estimate:~~ **500**

$$\begin{array}{r} 7 \quad 15 \\ 585 \\ - 119 \\ \hline \end{array}$$

2. ~~Estimate:~~

$$\begin{array}{r} 738 \\ - 227 \\ \hline \end{array}$$

3. ~~Estimate:~~

$$\begin{array}{r} 651 \\ - 376 \\ \hline \end{array}$$

4. ~~Estimate:~~

$$\begin{array}{r} 815 \\ - 281 \\ \hline \end{array}$$

5. ~~Estimate:~~

$$\begin{array}{r} 487 \\ - 290 \\ \hline \end{array}$$

6. ~~Estimate:~~

$$\begin{array}{r} 936 \\ - 329 \\ \hline \end{array}$$

7. ~~Estimate:~~

$$\begin{array}{r} 270 \\ - 128 \\ \hline \end{array}$$

8. ~~Estimate:~~

$$\begin{array}{r} 364 \\ - 177 \\ \hline \end{array}$$

9. ~~Estimate:~~

$$\begin{array}{r} 627 \\ - 253 \\ \hline \end{array}$$

10. ~~Estimate:~~

$$\begin{array}{r} 862 \\ - 419 \\ \hline \end{array}$$

11. ~~Estimate:~~

$$\begin{array}{r} 726 \\ - 148 \\ \hline \end{array}$$

12. ~~Estimate:~~

$$\begin{array}{r} 543 \\ - 358 \\ \hline \end{array}$$

Problem Solving 

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?

Name _____

Combine Place Values to Subtract

COMMON CORE STANDARD CC.3.NBT.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

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?

Name _____

Problem Solving • Model Addition and Subtraction

COMMON CORE STANDARD CC.3.OA.8

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

Use the bar model to solve the problem.

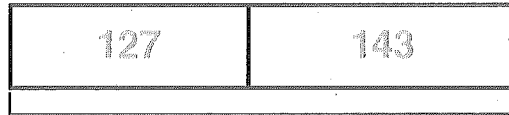
1. Elena went bowling. Elena's score in the first game was 127. She scored 16 more points in the second game than in the first game. What was her total score?



▲ points

$$127 + 16 = \blacktriangle$$

$$143 = \blacktriangle$$



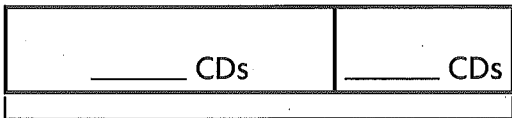
■ points

$$127 + 143 = \blacksquare$$

$$270 = \blacksquare$$

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

◆ = _____

Name _____

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. $\begin{array}{r} 24 \\ + 82 \\ \hline \end{array}$ + _____

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

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

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