$\qquad$

## Grouping by Tens

NCTM Standards 1, 6, 7, 8, 10
Write the number that matches each collection of base-ten blocks. Compare the collections using $\square$ or $\square$.
(1)


3


Compare the numbers using $\square$ or $\square$.

(13) List the numbers in order from least to greatest.

| 2,515 | 5,512 | 1,255 | 5,251 | 5,521 | 2,551 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |

Explain how you decided on the order of the numbers in Problem 13.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
(15) Challenge Write the number shown by this collection of blocks.

(16) Challenge Represent the number again using the fewest blocks.
$\qquad$

Chapter 5

## Lesson 2

## Rounding to the Nearest Ten or Hundred <br> NCTM Standards 1, 6, 7, 10

Label the multiples of 10 that surround each number. Circle the nearest multiple of 10.


Label the multiples of 100 that surround each number. Circle the nearest multiple of 100.
-

(10)


Label the multiples of 10 that surround each number．In the boxes above the number lines，write the distance from the number to each multiple of $\mathbf{1 0}$ ．Circle the nearest multiple of 10.

（12）

（13）

（14）


Label the multiples of 100 that surround each number．In the boxes above the number lines，write the distance from the number to each multiple of 100 ．Circle the nearest multiple of 100.

（10）

（11）

（18）

（10）Challenge Round each number to the nearest ten．

| 67 | $\square$ |  |  |
| ---: | :--- | ---: | :--- |
| 678 | $\square$ | $\square 89$ | $\square$ |
| 678 |  |  |  |

$\qquad$

Chapter 5

## Lesson 3

Finding Differences on the Number Line
NCTM Standards 1, 2, 7, 8, 10

For each subtraction sentence, draw jumps on the number line to help you find the difference.
(1)


2


51 — 35 —

(3)

$51 \square 19 \square$

(4)
$\stackrel{\leftarrow}{(24)}$
$\rightarrow 32$
$62 \square 24 \square$ $\square$
(5)

100
62

(6) Choose one of the problems above.

Explain how you selected your stopping points.

For each subtraction sentence, draw jumps on the number line to help you find the difference.
(7)


$$
156 \square 129 \square
$$

$\square$

8


$$
345 \square 307 \square \square
$$

9


10

$(11$

(12)


$$
232 \square 89 \square \square
$$

(1) Challenge


1,000 $\square$
$\square$

90 ninety XC 2■3口3口5
$\qquad$

## Using Tens and Hundreds to Estimate Sums <br> NCTM Standards 1, 2, 6, 7, 8, 9

## Circle the correct sentence.

(1) $31 \square 4$ The sum is in the thirties.
(2) $22 \square 9$ The sum is in the twenties. The sum is in the thirties.
(3) $14 \square 53$ The sum is in the sixties.

The sum is in the seventies.
(4) $67 \square 25$ The sum is in the eighties. The sum is in the nineties.

5
$39 \square 38$ The sum is in the sixties.

## Write only the tens digit for each sum.

| $\begin{array}{r} 6 \\ 15 \\ +\quad 4 \\ \hline 1 \text { 1 } \end{array}$ | $\begin{array}{r} 18 \\ +\quad 4 \\ \hline 2 \bigvee \end{array}$ | $\begin{array}{r} 8 \\ 13 \\ +\quad 8 \\ \hline 2 X \end{array}$ | $\begin{array}{r} 28 \\ +\quad 1 \\ \hline \square \end{array}$ | $\begin{array}{r} 14 \\ +\quad 16 \\ \hline \$ \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} 12 \\ +\quad 8 \\ \hline \$ \end{array}$ | $\begin{array}{r} 17 \\ +\quad 7 \\ \hline \$ \end{array}$ | $\text { (13) } \begin{array}{r} 22 \\ +\quad 7 \\ \hline \square \end{array}$ | $\begin{array}{r} 18 \\ +\quad 17 \\ \hline \$ 7 \end{array}$ | (16) $\begin{array}{r} 14 \\ +\quad 29 \\ \hline \square \end{array}$ |
| $\begin{array}{r} 16 \\ +\quad 29 \\ \hline \$ y \end{array}$ | $\begin{array}{r} 31 \\ +\quad 26 \\ \hline \$ y \end{array}$ | $\begin{array}{r} 39 \\ +\quad 49 \\ \hline \$ \end{array}$ | $\begin{array}{r} 50 \\ +\quad 29 \\ \hline \$ 又 \end{array}$ | $\begin{array}{r} 47 \\ +\quad 49 \\ \hline \$ 又 \end{array}$ |

## Circle the correct sentence.

(21) $329 \square 418 \quad$ The sum is in the 700s. The sum is in the 800 s .
$162 \square 15$
$425 \square 258$

Write only the hundreds digit for each sum.


27. 571 The sum is in the 800s. The sum is in the 900s.

The sum is in the 600s.
The sum is in the 700s.

361 The sum is in the 400s. The sum is in the 500s.
The sum is in the 200s.
The sum is in the 300 s.

| 20. $\begin{array}{r}738 \\ +\quad 186 \\ \hline \\ \hline\end{array}$ | (27) $\begin{array}{r}5 \quad 4 \quad 7 \\ +\quad 5 \\ \hline\end{array}$ | (28) $\begin{array}{r}2 \quad 100 \\ +\quad 5 \quad 6 \quad \\ \hline 1\end{array}$ |
| :---: | :---: | :---: |
| (29) $\begin{array}{r}676 \\ +\quad 2 \quad 5 \quad 7 \\ \hline\end{array}$ | (30) $\begin{array}{r}143 \\ +\quad 592 \\ \hline\end{array}$ | (3) $\begin{array}{r} 41 \begin{array}{r} 6 \\ + \\ + \\ \hline \end{array} \$ \square \end{array}$ |
| (92) $\begin{array}{r}384 \\ +\quad 1 \quad 5 \\ \hline \\ \hline\end{array}$ | (33) $\begin{array}{r}4 \quad 0 \quad 5 \\ +\quad 4 \quad 7 \quad 7 \\ \hline\end{array}$ | (34) $\begin{array}{r}327 \\ +\quad 180 \\ \hline \\ \hline\end{array}$ |

Challenge If you only want to know the hundreds digit of a sum, would you ever need to look at the ones digits in the problem? Explain.
$\qquad$
Chapter 5

## Lesson 5

## Estimate and Adjust to Find Sums <br> NCTM Standards 1, 2, 6, 7, 8, 9, 10

Show each sum with the fewest blocks. Then complete the number sentence.
1
280 $+234$ $\square$

(3)

(4) How did drawing the picture in Problem 3 help you to complete the number sentence?

Write only the hundreds digit for each sum.

5

Write only the tens digit for each sum.

B


B


B

$$
\begin{array}{r}
186 \\
+\quad 345 \\
\hline \$
\end{array}
$$

Write only the ones digit for each sum.
C

C $\quad 437$ $+245$

Find the sum.
8

©

(10)
186
$\begin{array}{r}+345 \\ \hline\end{array}$

(11) Challenge Find the missing addend.
$\begin{array}{r}\square \\ +\quad 119 \\ \hline 143\end{array}$
134
$\square$
162
$\qquad$

# Using Cross Number Puzzles to Add <br> NCTM Standards 1, 2, 6, 9, 10 

Complete each Cross Number Puzzle and number sentence. The blocks in the bottom row of the puzzle may not always be the fewest blocks to match the total sum. You many want to draw another picture that shows fewest blocks.
(1)

| I | numbers |  |
| :---: | :---: | :---: |
| II |  | 29 |
| III |  | 37 |
|  |  |  |

29
$+37$


409


162
$+345$

(4) $\square$

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| $\square$ | I | numbers |  |
|  |  |  | 236 |
|  |  |  | 285 |
|  |  |  |  |

236
+285
$+\quad \square$

Complete each Cross Number Puzzle.
5

| 700 | 80 | 5 |  |
| :--- | :--- | :--- | :--- |
| 100 | 60 | 9 |  |
|  |  |  |  |

6

| 200 | 70 | 3 |  |
| :--- | :--- | :--- | :--- |
| 500 | 30 | 7 |  |
|  |  |  |  |

7

| 600 | 60 | 7 |  |
| :--- | :--- | :--- | :--- |
| 100 | 60 | 5 |  |
|  |  |  |  |

8

| 300 | 40 | 5 |  |
| :--- | :--- | :--- | :--- |
| 200 | 50 | 7 |  |
|  |  |  |  |

©

| 100 | 20 |  | 128 |
| :--- | :--- | :--- | :--- |
| 100 |  | 6 | 186 |
|  |  |  |  |

(10) |  | 40 | 9 | 349 |
| :--- | :--- | :--- | :--- |
| 200 |  | 7 | 277 |
|  |  |  |  |

## (1) Challenge

|  | 80 | 3 | 683 |
| :--- | :--- | :--- | :--- |
| 300 | 10 |  | 317 |
|  |  |  |  |

$\qquad$

Chapter 5

## Lesson 7

## Using a Common Addition Algorithm

NCTM Standards 1, 2, 6, 9, 10
Show the sum using fewest blocks and complete the number sentence.


Complete the Cross Number Puzzle and the number sentence.
(3)

| 300 | 80 |  | 387 |
| :--- | :--- | :--- | :--- |
|  | 0 | 9 | 409 |
|  |  |  |  |

Find the sum.

(4)

5

6
285
+333
$+\quad \square$

Find the sum.


## Solve.

(11) In Lanh's school there are 367 girls and 349 boys. How many students go to Lanh's school?
$\qquad$ students
(12) It took two days to drive to grandma's house. On the first day, we drove 446 miles. On the second day, we drove 395 miles. How far is it to grandma's?
$\qquad$ miles
(13) Challenge Akiko and Hiroshi were collecting pennies for the animal shelter. Hiroshi collected 234 pennies. Akiko collected twice as many pennies as Hiroshi. How much did they collect?
$\qquad$
Chapter 5

## Lesson:

## Estimate and Adjust to Find Differences <br> NCTM Standards 1, 2, 6, 7, 8, 9, 10

Show each difference. Then complete the number sentence.
(1)


2


(3)

(4) Did you make any exchanges to solve Problem 2? Explain.

Write only the hundreds digit for each difference.

5


## Find the difference.

8

$$
\begin{array}{r}
808 \\
-\quad 366 \\
\hline \square
\end{array}
$$

©

(10)
531
-186
$-\quad \square$
(11) Challenge Find the missing number.

$$
\begin{array}{r}
143 \\
-\quad \square \\
\hline 119
\end{array}
$$

$$
\begin{array}{r}
162 \\
-\quad \square \\
\hline 134
\end{array}
$$

$\qquad$

# Using Cross Number Puzzles to Subtract <br> NCTM Standards 1, 2, 6, 9, 10 

Complete each Cross Number Puzzle and number sentence. You will not always be able to use the fewest blocks in the top row of the puzzle.
(1)


$$
66
$$

$$
-37
$$


(2) $\square \quad 1 \quad$ numbers

|  |  |  | 532 |
| :---: | :---: | :---: | :---: |
| $\square$ | II |  | 128 |
|  |  |  |  |532


(3)


4


Complete each Cross Number Puzzle.

(5) |  | 140 | 14 | 954 |
| :---: | :---: | :---: | :---: |
| 100 | 60 | 9 | 169 |
|  |  |  |  |

(6) | 700 |  | 10 | 810 |
| :---: | :---: | :---: | :---: |
| 200 | 70 | 3 | 273 |
|  |  |  |  |

|  |  |  | 832 |
| :--- | :--- | :--- | :--- |
| 600 | 60 | 7 | 667 |
|  |  |  |  |

8

|  |  |  | 602 |
| :--- | :--- | :--- | :--- |
| 200 | 50 | 7 | 257 |
|  |  |  |  |

©

|  |  |  | 314 |
| :--- | :--- | :--- | :--- |
| 100 | 20 | 6 | 126 |
|  |  |  |  |

(10)

|  |  |  | 626 |
| :--- | :--- | :--- | :--- |
| 200 | 70 | 7 | 277 |
|  |  |  |  |

## (1) Challenge

|  |  |  | 1,000 |
| :--- | :--- | :--- | :--- |
| 300 | 10 | 7 | 317 |
|  |  |  |  |

$\qquad$
Chapter 5

## Lesson 10

## Using a Common Subtraction Algorithm

NCTM Standards 1, 2, 6, 7, 8, 9, 10
Show the difference using base-ten blocks. Then complete the number sentence.


Complete the Cross Number Puzzle and the number sentence.
(3)
(4)

|  |  |  | 796 |
| :--- | :--- | :--- | :--- |
| 300 | 80 | 7 | 387 |
|  |  |  |  |796

-387
$\square$

|  |  |  | 936 |
| :--- | :--- | :--- | :--- |
| 200 | 90 | 4 | 294 |
|  |  |  |  |

Find the difference.
(5)

6

prime CIII one hundred three 103

## Find the difference.



## Solve.

(11) There were 716 books sold at the fair. There were 349 hardbacks sold. The rest were paperbacks. How many paperbacks were sold?
(12) Write your own subtraction word problem.

Write a number sentence to solve the problem.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
(1B) Challenge Sally Ride Elementary School had 702 students. 328 of them brought lunch from home, and the rest bought lunch at school. Of the students who bought school lunch, 98 chose pizza and the rest chose tacos. How many students chose tacos?
$\qquad$
(1) The Pickle Factory workers pack 100 jars of pickles in every box. If Jo packed 473 jars of pickles before lunch and 658 jars after lunch, how many full boxes did she make?
(2) Rod used small jumps on the number line to find the difference. What jumps might Rod have made?

(3) Misha made the sum with fewest blocks. How many rods are in the sum?

$\qquad$ rods

## Problem Solving Test Prep

## Choose the correct answer.

(1) Which is the only number that is to the right of 593 on a number line?
A. 490
B. 500
C. 590
D. 600
(2) Ariela buys 3 stickers for $7 \phi$ each. She has $10 \not \subset$ left. What is the fewest number of coins she could have had before she bought the stickers?
A. 3
B. 4
C. 5
D. 7
(3) Jasmine is rounding numbers to the nearest hundred. Which is the largest number that she can round to 800 ?
A. 851
B. 849
C. 750
D. 749
(4) Eric pays for a snack with coins. The amount he pays rounds to the same number when rounded to the nearest dime or the nearest dollar. Which is an amount he could pay?
A. $90 \not \subset$
B. $92 \varnothing$
C. $94 \not \subset$
D. $96 \Varangle$

## Show What You Know

Solve each problem. Explain your answer.
(5) Suki has more markers than Jake and fewer than Chelsea. Jake has 107 markers, and Chelsea has 118 markers. What is the largest number Suki can have? Explain.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## chapter 5 Review/Assessment <br> NCTM Standards 1, 2, 6, 7, 9, 10

Compare the numbers using $\square$ or Lesson 1


Label the multiples of $\mathbf{1 0}$ that surround each number. Circle the nearest multiple of 10. Lesson 2

7


8


Label the multiples of 100 that surround each number. Circle the nearest multiple of 100. Lesson 2


For the subtraction sentence, draw jumps on the number line to help you find the difference. Lesson 3
(11)


Write only the hundreds digit for each sum or difference.
(12)

Lessons 4, 5

A | 196 |
| ---: |
| $+\quad 2 \quad 1 \quad 3$ |

(13)
A

| 736 |
| ---: |
| -295 |
| 2 |

Write only the tens digit for each sum or difference.

B

B


Write only the ones digit for each sum or difference.


Find the sum or difference Lessons 7,10


Solve. Lesson 11
(17) Darin collected 132 cans for the school recycling drive. Martin collected 178 cans. Estimate to the nearest hundred the total number of cans the boys collected for the school recycling drive.

Chi used a pedometer to count her steps. By 9:00 A.M., she had taken 683 steps. At 10:00 A.M., her new total was 946 steps. How many steps did Chi take between 9:00 A.M. and 10:00 A.M.?

