Vlama	Data/Timo
Name	Date/Time _

# Grouping Measurement Units NCTM Standards 1, 4, 6, 7, 10

Write the missing amount. Shade the picture if you want.

1 2 weeks, 3 days

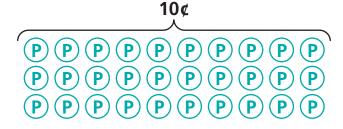
2 1 dime, 4 pennies

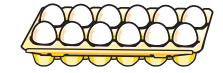


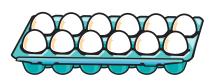
SUN	MON	TUE	WED	THU	FRI	SAT

- 3 2 dimes, pennies 28 pennies
- 4 1 dozen, 2 eggs

eggs







weeks, days 23 days

6		6	
---	--	---	--

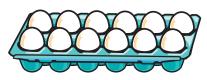
dozen,	

eggs	
00	

20 eggs

SUN	MON	TUE	WED	THU	FRI	SAT

TO T	



#### Use the fewest units to complete each row in the table.

Weeks	Days	Total days
1	0	7
1	4	
0	6	
2		14
1		12
	3	24
		22

8	Dimes	Pennies	Total pennies
	1	4	
	2		28
	0	3	
		2	12
			8
			35
			61
		2	35

Minutes Seconds		Total seconds
0	20	
1	0	60
2	0	120
1		72
		67
	49	109
		135

1 hour Minutes Total minutes				
	1	9	39	
	0	9		
	1	0		
	2	0		
			53	
			71	
			89	

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# Chapter 4 Lesson 2

# **Adding and Subtracting Money**

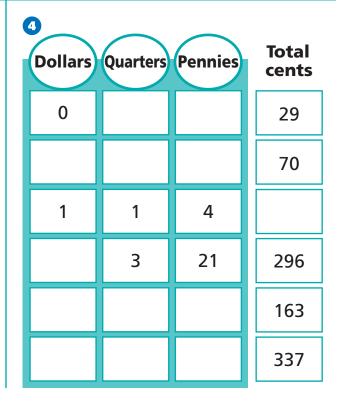
NCTM Standards 1, 6, 7, 9, 10

Complete the table using the fewest units.

Dimes	Nickels	Pennies	Total cents
		0	5
			9
1	1	0	
			33
5	1	4	
			45

Quarters	Nickels	Pennies	Total cents
			9
1	1	0	
			34
2	0	4	
1	3	2	
			79

Dollars	Dimes	Pennies	Total cents
0			16
0	5	8	
			87
1	2	4	
1		6	166
			214



# Use the fewest coins to complete the table. You can use the table to find the missing sums.

6

Dimes	Nickels	Pennies	Total cents
			23
7			71
			87
			7
4	1	3	
			18
			32

6

0

48¢ 23¢

8

32¢ 18¢ \_\_\_\_\_¢

Challenge Keegan spent 1 week and 5 days with her aunt and then 2 weeks and 4 days with her grandfather. How long was Keegan away?

weeks,

**Challenge** The large desk is **3** feet **4** inches wide. The doorway is only **2** feet **8** inches wide. How much wider is the desk than the doorway?

feet, inches

days

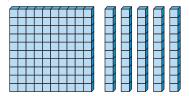


#### Regrouping with Base-Ten Blocks

NCTM Standards 1, 6, 7, 8, 9, 10

For each group of blocks, decide if it matches the number and if it uses the fewest blocks to match it.

**1** 85



Matches? yes no

Matches with fewest? yes no

Matches? yes no

Matches with fewest? yes no

Matches?

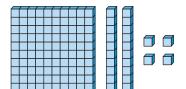


Matches

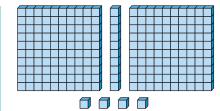
with fewest? yes



**2** 124



Matches? yes no Matches with fewest? yes no Matches? yes no Matches with fewest? yes no



Matches? yes no

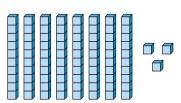
Matches

with fewest? yes no

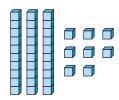
**38** 



Matches? yes no Matches with fewest? yes no



Matches? yes no
Matches
with fewest? yes no



Matches? yes no Matches with fewest? yes no

Write the number that matches the group of blocks.  number: rods, units	
Answer the questions about this group of blocks.	
231	
S How do you know this group of blocks does <b>NOT</b> use the fewest blocks?	
What group of blocks uses the fewest blocks to show 231?	

<b>7 Challenge</b> Omar started with 1 dollar,
8 dimes, and 3 pennies. Then he earned
1 quarter for doing a chore. How much
money does Omar have? How can he write

this amount using the fewest dollars, dimes, and pennies?

Chapter 4
Lesson 4

### **Mystery Number Puzzles**

NCTM Standards 1, 2, 6, 7, 8, 9, 10

"Have fun," said Mrs. Jackson.

"All these puzzles are about two-digit numbers."

- **1** A I am greater than 24 4.
  - **B** *u t* (My units digit is less than my tens digit.)
  - **c** I am odd.

- 2 A t u
  - **B** I am not an even number.
  - **c** I am a multiple of 5.

- **3** A I am less than 4 4.
  - **B** I am a multiple of 5.
  - **c** I am even.

- 4. A I am less than 6
  - **B** I am greater than 7 3.
  - **c** *u t*

You can use this space to make your lists.

0

8

**B** 

4



5 One of the clues above says, "I am a multiple of 5." What does this clue tell about the units (ones) digit of the mystery number?

#### Some of these mystery numbers have 3 digits.

- **6** A I can be represented by 6 base-ten blocks.
  - $\mathbf{B} t u$
  - **c** I am even.

- **7** A I am greater than 10 12.
  - **B** I am a multiple of 25.
  - ch t u



- **8** A I am less than 13 12.
  - $\mathbf{B} t u$
  - cht

- Ochallenge
  - A I am less than 20 20.
  - **B** I am a square number.
  - $\mathbf{c}$  u t
  - D h



#### You can use this space to make your lists.

6

0

8

9



#### **Focusing on Digits**

NCTM Standards 1, 2, 6, 7, 9, 10

# Write the two-digit mystery number for each puzzle at the bottom of the page.

- **1** A Both my digits are odd.
  - **B** I am less than 5 7.
  - $\mathbf{c}$  u t

- 2 A I am greater than 7 9.
  - **B** Both my digits are odd.
  - **c** I can be made with 8 base-ten blocks.

- **3** A t is even.
  - **B** I am a multiple of 10.
  - c I am less than 7 4.

- 4 A I am between 7 5 and 7 7.
  - **B** I am a multiple of 5.
  - $\mathbf{c}$  u t

0

t	u

- 0 1 1 2 2 3 3
- 4 4 5 5 6 6
- 7 7 8 8

9

2

	•		u
$\overline{}$		•	
		÷	
		:	
		;	
		÷	
$\vdash$		<u>:</u>	

- 0 1 1 2 2 3 3 4 4 5 5 6 6
- 7 7 8 8 9 9

- **3** 
  - t u
    - 0 1 1
      - 2344
      - 5 5 6 6 7 7
      - 7 7 8 8 9 9

- 4
  - t u
- 0
  - 1 1 2 2 3 3
  - 3 3 4 4
  - 5 5 6 6 7 7
  - 7 7 8 8 9 9

# Write the mystery number for each puzzle at the bottom of the page.

- 5 A I am less than 100.
  - B I am odd.
  - **c** I am a multiple of 11.
  - **D** The sum of my digits is 10.

- **6** A I am less than 10 10.
  - **B** I am even.
  - **c** The product of my digits is 42.
- **7** A I am between 12 12 and 17 10.
  - $\mathbf{B} u t$
  - **c** I can only be made with more than 14 base-ten blocks
  - **D** t 2 u

#### **8** Challenge

- **A** I am between 10 10 and 20 20.
- **B** h u 3
- **c** I am a square number.
- **D** t h 2

5	t	и
		0
	1	1
	2	2
	2	2

2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

1 2 3 4 5	0 1 2 3 4 5

u

**6** t

2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

••		u
	0	0
1	1	1
2	2	2
2 3 4 5 6	2 3 4 5 6	2 3 4 5 6
4	4	4
5	5	5
6	6	6
7	7	7
_		_

8

8

8

9

t

u

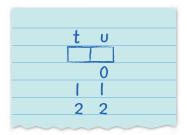
n h

n	τ	u
	0	0
1		
2	2	2
3	3	3
4	4	4
5	5	5
5	6	6
7	7	7
3	8	1 2 3 4 5 6 7 8 9
9	9	9
	1 2 3 4 5 7 8	0

### **Working Strategically**

NCTM Standards 1, 2, 6, 7, 8, 9, 10

On your own piece of paper, you can make a diagram like the one shown below to help you solve the puzzle.



Remember that when you think there are just a few possible mystery numbers, list them all. Then look for ways to cross out numbers.

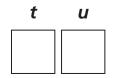
- **1** A I am an odd number.
  - **B** The product of my digits is 7.
  - **c** *u t*

t	u

- 2 A I am greater than 7 9.
  - **B** The product of my digits is 24.
  - **c** I have less than 9 groups of 10.
  - **D** I do not have two even digits.

t	u

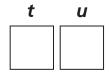
- **3** A t is even.
  - **B** I am a multiple of 5.
  - **c** u t 11
  - **D** I have 5 units.



- 4 A I am between 7 5 and 7 7.
  - **B** The product of my digits is 12.
  - **c** u t

L	u	
		_

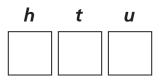
- 5 A You can show me with a group of 9 base-ten blocks.
  - **B** t u 18
  - $\mathbf{c}$  t u
  - **D** I am an odd number.



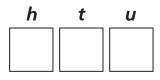
- **6** A I have more than 3 tens.
  - **B** t u 8
  - **c** I am a square number.

t	u	

- **7** A You can show me with a group of 17 base-ten blocks.
  - **B** I am a multiple of 10.
  - cht



- **8** Challenge
  - A I am an even number.
  - $\mathbf{B} h t 0$
  - **c** h u u
  - **D** *u* 8





Describe how you solved one of the puzzles on page 77 or page 78.

Name	Date/Time

# Place Value with Larger Numbers NCTM Standards 1 6 8 9 10

Draw a line to connect each number to its name. Not all names will be used.

1 200 thirty thousand

2 3,000 two thousand

three hundred

**3** 400 forty

4 5,000 five thousand

5 50 three thousand

6 10,000 four hundred

fifty

7 30,000 four thousand

3 4,000 nine hundred

ten thousand

one thousand

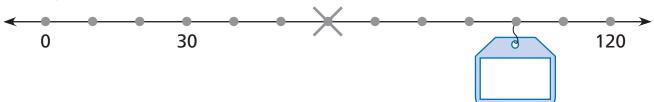
10 900 nine thousand

9 1,000

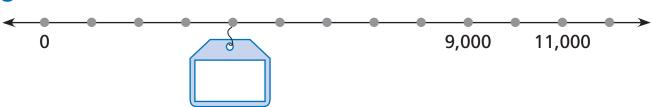
two hundred

### Draw an X to show where each number would be. Fill in the numbers in the tags.

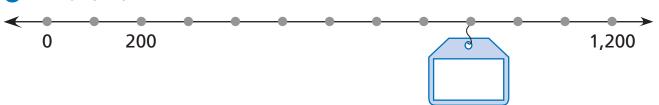




22 seven thousand



**1** six hundred



- Petra saw 280 birds on her nature hike.
  She rounds to the nearest hundred when she tells her mom how many birds she saw. What does Petra tell her mom she saw?
- There are 47 third graders going on a field trip to the wildlife sanctuary. Round the number of third graders to the nearest ten.

**6 Challenge** Look at 23,578.

What digit is in the hundreds place?

What digit is in the ten-thousands place?

What digit is in the thousands place?

### **Problem Solving Strategy**

#### **Make an Organized List**

NCTM Standards 1, 6, 7, 8, 9



- 1 Two sisters are nicknamed V and Z. They both just had birthdays. Use the clues to find their ages.
  - A Z is younger than 8 3.
  - **B** Z is older than V.
  - **c** V is older than 3 6.
  - **D** Their ages are both even.

V is years old.

Z is years old.

- 2 Three children in a family are nicknamed J, K, and L. Use the clues to find who is a sister and who is a brother.
  - **A** Only two of the children are boys.
  - **B** J is the brother of K.
  - **c** L is the brother of K.

J is a

K is a

L is a

#### **Problem Solving Test Prep**

#### Choose the correct answer.

- 1 What is the difference between the largest two-digit number and the smallest two-digit number that can be made using the digits 3 and 9?
  - **A.** 39
- C. 54
- **B.** 45
- **D.** 93
- 2 Colleen uses small cubes to make a staircase. The steps have these numbers of cubes: 3, 6, 9, and 12. If she keeps following her pattern and makes the staircase taller, how many cubes will she need for the sixth step?
  - **A.** 18
- **C.** 16
- **B.** 17
- **D.** 15

- Jackson buys 2 pens and pays 15¢ each for them. He now has 12¢. What is the smallest number of coins he could have had before he bought the pens?
  - **A**. 4
- **C**. 6
- **B.** 5
- **D**. 7
- Which of these numbers could be the answer to this puzzle?

I am an even number greater than 40 and less than 60. What number am I?

- **A.** 40, 42, or 48
- **B.** 42, 48, or 55
- C. 46, 54, or 60
- **D.** 44, 50, or 58

#### Show What You Know

#### Solve each problem. Explain your answer.

S Delroy can choose from vanilla or chocolate ice cream. He can have a 1 scoop or 2 scoops of the same flavor. Homer can choose from 3 flavors, but can have only 1 scoop. Who has more choices? How many more?

ly ?	

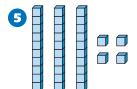
Maria has a black, a brown, and a blue pair of pants. She has a black and a brown sweater. She makes outfits with a pair of pants and a sweater. How many extra outfits can she make if she gets one more sweater?

_	=
20000	
Downlow on the	
1000	
6	2

<b>C</b>	1.70	Lessons 1		
20	ıve.	Lessons 1	and	2

- 1 The school was having its fair in 2 weeks and 4 days. In how many days will the school be having its fair?
- 2 Sonya has 23 cents with only 3 pennies and the rest in nickels. How many nickels does Sonya have?
- 3 In 130 seconds, the bell will ring. After 2 minutes, how much more time will pass before the bell rings?
- Maria received 2 quarters and 3 pennies in change. How much money does Maria have?

### Write the number that matches each group of base-ten blocks. Lesson 3



number:

number:

#### Solve, Lesson 7

**7** Round 6,679 to the nearest thousand.

8 Round 486 to the nearest hundred.

Round 81 to the nearest ten.

\_\_\_\_

Round 121 to the nearest hundred.

- \_\_\_\_
- 10 Round 78,345 to the nearest ten thousand.

Find the mystery number. Lessons 4, 5, 6, and 8

Who Am I?

- A I am a two-digit number.
- **B** I am an even number.
- **c** My tens digit is 4 more than my ones digit.
- **D** The product of my tens and ones digit is 12.

You can use this space to make a list.

mystery number:

### Draw a line to connect each number to its name. Not all names will be used. Lessons 3 and 7

7,000	six thousand
7,000	SIX TNO

six hundred

**₫** 600 five thousand

seven thousand

15 20,000 seventy thousand

thirty thousand

twenty thousand

seven thousand, three hundred five

seven thousand, thirty-five

**5,000** 

7,035

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