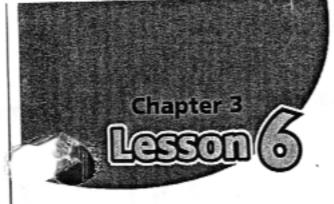
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, tallio.		



Estimating Differences

Use your own strategies to estimate differences.

1. Joshua and his friends are raising money for a school trip. Each class needs \$3000. The chart shows how much each class has raised.

Class	Money raised	Money still needed
Joshua's class	\$1047	
Chu Lee's class	\$2516	
Nicola's class	\$517	
Desmond's class	\$1998	
Heiko's class	\$2905	
Sandra's class	\$989	

At-Home Help

Here are some ways to estimate differences.

- Use base ten blocks or counters to model the problem.
- Use a number line to model the problem.
- · Estimate by subtracting the closer hundreds or thousands (e.g., 1130 is closer to 1000 than 2000).

a)	Estimate the amount of money each class still needs
	Record your answers in the chart.

b)	How did you estimate the differences?	
----	---------------------------------------	--

- 2. 290 cm is cut from a 510 cm ribbon. About how many centimetres long is the ribbon now?
- 3. There are 7100 people in Petrock Town. 3900 are adults. About how many are children?



Rounding

Directions: Round these numbers to the nearest ten.

18 _____ 33 _____ 82 _____ 56 ____ 24 ____ 49 ____ 91 ____ 67 ____



Directions: Round these numbers to the nearest hundred.

0.40			AT A DECEMBER OF	
243	689	263	162	
389	720	351	490	
463	846	928	733	

Directions: Round these numbers to the nearest thousand.

2,638	3,940	8,653	8
		5,061	
7,289	2,742	9,460	- The state of the
3,109	4,697	8,302	

Directions: Round these numbers to the nearest ten thousand.

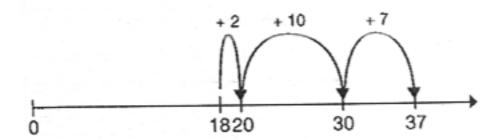
11,368	38,421	
75.000	67,932	
14,569	49,926	
	81,648	
26,784	87,065	
57,843	29,399	

Name:	
11011101	

Date:_____

You can subtract by adding on.

To calculate 37 - 18, think of 18 + 98 = 37.



Stop at friendly numbers along the way.

$$18 + 2 + 10 + 7 = 37$$

 $18 + 9 = 37$
So, $37 - 18 = 19$

Remember

Sometimes it is easier to subtract different parts of a number one at a time.

Try These

Circle the best estimate. Explain how you estimated.

possible estimates

30

40

50

20

30

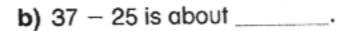
40

50

60

70

Estimate each difference. Explain your thinking.



Name:		

Date:

21 22 23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38 39

41 42 43 44 45 46 47 48 49

71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90

91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17

51 52 53 54 55 56 57

61 62 63 64 65 66 67

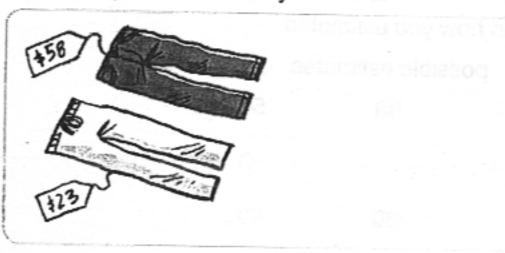
 You can calculate 64 – 49 using a 100 chart. Subtract in parts starting at 64. To subtract 40, go up 4 rows.

To subtract 9, go up 1 row and right 1 to subtract 10 and then add back 1.

$$64 - 49 = 15$$

Use the 100 chart to subtract. Use a different colour for each subtraction.

4. What is the difference in price? Solve the problem. Show your work.



Show 2 ways to complete each subtraction.





18 19 20

58 59 60

68 69

40

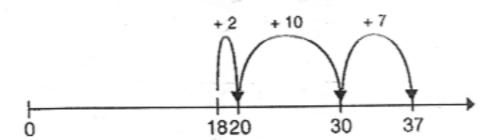
50

Name:		

Date:_____

You can subtract by adding on.
 To calculate 37 − 18, think of 18 + ■ = 37.

Subtraction



Lesson 6- estimating

Stop at friendly numbers along the way.

$$18 + 2 + 10 + 7 = 37$$

$$18 + 19 = 37$$
So, $37 - 18 = 19$

Remember

Sometimes it is easier to subtract different parts of a number one at a time

Try These

1. Circle the best estimate. Explain how you estimated.

possible estimates

a) 88 - 39

30

40

90 - 40 = 50

90-40=50

b) 48-20 20 30 40 40-20=20 or 50-30=20

c) 91 - 38 50 60 70 90 - 30 = 60 100 - 40 = 60

2. Estimate each difference. Explain your thinking.

a) 58 - 17 is about 40

50-20=30 60-20=40

50-10=40

40-30=10 30-20=10

Leaps and Bounds

c) 36 - 29 is about 10.

30-20=10

40-30=10

Alexandr		
Name:		

Date:____

21 23 24 25 26 27 28 29

31 32 33 34 35 36 37 38 39

61 62 63 64 65 66 67 68 69

71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90

91 92 93 94 95 96 97 98 99 100

51 52 53 54 55 56 57

46 47

18 19

48 49

58 59

20

30

40

50

You can calculate 64 - 49 using a 100 chart.
 Subtract in parts starting at 64.
 To subtract 40, go up 4 rows.

To subtract 9, go up 1 row and right 1 to subtract 10 and then add back 1.

$$64 - 49 = 15$$

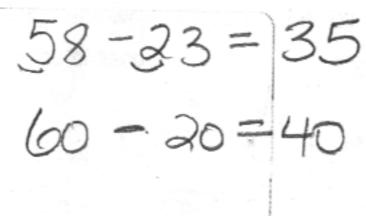
Use the 100 chart to subtract.
Use a different colour for each subtraction.

c)
$$65 - 26 = 39$$

d)
$$72 - 17 = 55$$

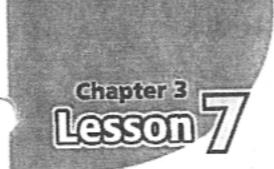
4. What is the difference in price? Solve the problem. Show your work.











Name: __ Cassul Key Date: __

Subtracting Numbers Close to Hundreds or Thousands

GOAL

Use mental math to subtract.

- Use mental math to calculate. Show your work. The first one is done for you.
 - a) 1000 197 = 803

197 + 3 + 800 = 1000, so 3 + 800 = 803

b) 2000 - 498 = ___1502

2000- 500= 1500+2

c) 1000 - 299 = 70\

1000 - 300 = 700 +1

d) 5000 - 3996 4 1004

5000 -4000 = 1000+4

e) 602 - 499 = 103

600-500=100+3

f) 4006 - 2999 = 1007

4000- 3000= 1000 +7

2. A library has 5000 books. 1997 are on loan. How many books are left in the library?

5000 - 19973 = 3003

5000 - 2000 = 3000+3

At-Home Help

To subtract, add to the smaller number until you reach the greater number. For example:

1904 - 897 = 🧓

This is the same as

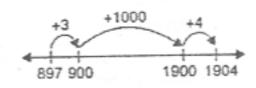
897 + 3 = 1904

To reach 1904, add numbers to 897:

897 + 3 = 900

900 + 1000 = 1900

 $1900 \div 4 = 1904$



The difference is

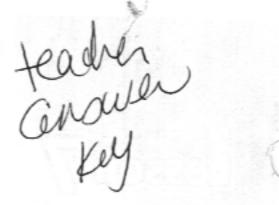
3 + 1000 + 4 = 1007.

-2000 3000 Copyright © 2008 by Nelson Education Ltd.

Subtracting Mentally



Develop mental math strategies for subtracting 2-digit numbers.



 Add the same number to each number to make subtracting easier. Record only the answer.

c)
$$45 - 28 = 47 - 30 = 17$$

g)
$$83 - 28 = 85 - 30 = 55$$

At-Home Help

Adding the same number to each number in a subtraction question does not change the answer.

$$\begin{array}{c} 6+2 \longrightarrow 8 \\ -1+2 \longrightarrow -3 \\ \hline 5 \end{array}$$

Adding the same number can sometimes make it easier to subtract.

$$37 + 2 \longrightarrow 39$$

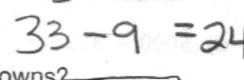
$$-18 + 2 \longrightarrow -20$$

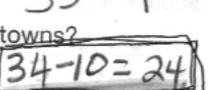
$$37 - 18 = 39 - 20$$

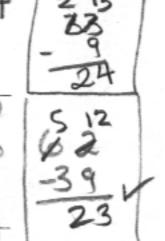
= 19

2. Use mental math to solve each problem.









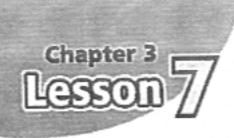
b) Licorice costs 62 cents. Gumballs cost 39 cents.

How much more does the licorice cost than the gumballs?

c) 19 cm is cut from a 51 cm ribbon. 59-19=32How many centimetres long is the ribbon now?

$$50-20=30+2=32$$
 | or $52-20=32$ | d) There are 71 students in grade 4. $71-39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$ | $71+39=32$

To - 40 = 30 +2 = 32 or
$$72-40=32$$
 32



Subtracting Numbers Close to Hundreds or Thousands

GOAL

Use mental math to subtract.

Use mental math to calculate. Show your work.
 The first one is done for you.

a)
$$1000 - 197 = 803$$

 $197 + 3 + 800 = 1000$, so $3 + 800 = 803$

2. A library has 5000 books. 1997 are on loan. How many books are left in the library?

At-Home Help

To subtract, add to the smaller number until you reach the greater number. For example:

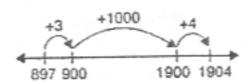
1904 - 897 =

This is the same as 897 + 389 = 1904

To reach 1904, add numbers to 897:

$$897 + 3 = 900$$

 $900 + 1000 = 1900$
 $1900 + 4 = 1904$



The difference is 3 + 1000 + 4 = 1007.

Subtracting Mentally



Develop mental math strategies for subtracting 2-digit numbers.

 Add the same number to each number to make subtracting easier. Record only the answer.

At-Home Help

Adding the same number to each number in a subtraction question does not change the answer.

$$\begin{array}{c} 6+2 \longrightarrow 8 \\ -1 + 2 \longrightarrow -3 \\ \hline 5 \end{array}$$

Adding the same number can sometimes make it easier to subtract.

$$37 + 2 \longrightarrow 39$$

$$-18 + 2 \longrightarrow -20$$

$$19$$

$$37 - 18 = 39 - 20$$

= 19

- 2. Use mental math to solve each problem.
 - a) It is 33°C in one town and 9°C in another town.
 What is the difference in temperature between the towns?
 - b) Licorice costs 62 cents. Gumballs cost 39 cents. How much more does the licorice cost than the gumballs?
 - c) 19 cm is cut from a 51 cm ribbon. How many centimetres long is the ribbon now?
 - d) There are 71 students in grade 4.
 39 are girls. How many students are boys?

Name:	Date:		
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3.8 Regrouping before Subtracting Page 1

Student Book pages 88-90

GOAL

Solve subtraction problems by regrouping first.

Problem

A video store has 457 DVDs. 148 DVDs have been rented.

		d	7	b	
ĺ	Ēί	6	a)	à
	É	넘	C	ø	g
	1	4	4	ø	

How many DVDs are left at the video store?

Make a model to solve the problem.

Step 1: Model 457 with base ten blocks.

This step has been done for you.

Hundreds	Tens	Ones
	CHARLEGUES. CHARL	820233

_	4	5	7	\langle
and the same of				 1

You will need

base ten

blocks

a place

value chart

Step 2: Compare the numbers column by column.

Do you need to regroup to subtract 1 hundred from 4 hundreds? _____

Do you need to regroup to subtract 4 tens from 5 tens? _____

Do you need to regroup to subtract 8 ones from 7 ones? _____

Trade 1 of the tens for 10 ones.

Hundreds	Tens	Ones
	CENTRACTORES OF THE PROPERTY O	22230 202230 202030

					\prod
		4	17		
	4	K	7		1
-	1	4	8		1
			9		i
ختنعنت		- William		-	

L Name:	_ Date:
3.8 Regrouping before Subtracting Page 2	20012
Step 3: Subtract the hundreds, tens, and ones.	
Count the blocks that are left.	
There are DVDs left at the video store.	
Reflecting	
How could you have estimated the number of DVDs that a	are left at the video store?
 A video store has 1257 DVDs. 	de la come de la companya de la comp
Model 1257 using base ten blocks.	UU kan kata na od anaka a
Draw your model in the place value chart.	

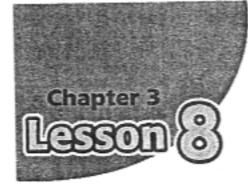
Thousands	Hundreds	Tens	Ones

Step 2: Draw your model after regrouping.

Thousands	Hundreds	Tens	Ones
		disemble books	
		296	di ya santan

Step 3: Subtract 780. Draw your model after subtracting.

Thousands	Hundreds	Tens	Ones



Regrouping before Subtracting

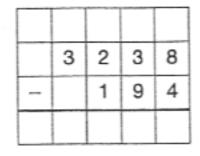
GOAL

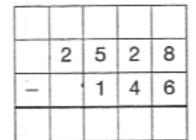
Solve subtraction problems by regrouping first.

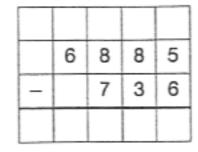
1. Calculate by regrouping.



1				
	1	9	7	3
-		5	2	7







c)

	5	1	3	6
-		4	1	0

f)

	3	1	6	7
_		2	4	8

At-Home Help

To help you subtract, you can regroup. For example:

- You need more than 4 hundreds to take away 6 hundreds. You can regroup 2 thousands 4 hundreds as 1 thousand 14 hundreds.
- You need more than 2 ones to take away 3 ones. You can regroup 9 tens 2 ones as 8 tens 12 ones.

2. Calculate using regrouping or mental math.

Subtracting from 4-Digit Numbers



Use a paper and pencil method to subtract from a 4-digit number.

1. Estimate the difference. Then subtract. Show your work.

At-Home Help

You can subtract larger numbers by regrouping the top number in several steps.

The answer seems reasonable because 1400 - 400 = 1000. and 918 is close to 1000.

- 2. Estimate and solve.
 - a) The average yearly precipitation (rain and snow) in Toronto is 819 mm. The greatest average yearly precipitation in Canada is 6655 mm in Henderson Lake, B.C. What is the difference in precipitation between Henderson Lake and Toronto?
 - b) A town has 1100 adults. 589 are women. How many men are there?
 - c) A school is trying to raise \$1000 for a charity. \$795 has already been raised. How much more money must the school raise?

L Name:		Date:	

3.8 Regrouping before Subtracting Page 1

Student Book pages 88-90

GOAL

Solve subtraction problems by regrouping first.

Problem

A video store has 457 DVDs. 148 DVDs have been rented.



How many DVDs are left at the video store?

Make a model to solve the problem.

Step 1: Model 457 with base ten blocks.

This step has been done for you.

Hundreds	Tens	Ones
	CHINDRICAL CONTRACTOR OF THE C	9999999

		^		
	4	5	7	
-	1	4	8	
	Y	10	,	1
-	_	and the same		

You will need

base ten

blocks

a place

value chart

Step 2: Compare the numbers column by column.

Do you need to regroup to subtract 1 hundred from 4 hundreds?

Do you need to regroup to subtract 4 tens from 5 tens?

Do you need to regroup to subtract 8 ones from 7 ones?

Trade 1 of the tens for 10 ones.

Hundreds	Tens	Ones
	CANADAMAN CANADA	30000 200000 000000

			/	′	_
			\checkmark		
		4	17		1
	4	B	1	Ġ	
-	1	4	8		
	3	0	9		
-		-	-	ستنت	Ц

L Name:	_ Date:
3.8 Regrouping before Subtracting Page 2	
Step 3: Subtract the hundreds, tens, and ones. Count the blocks that are left. There are 309 DVDs left at the video store.	450-100=350
Reflecting	350 450
How could you have estimated the number of DVDs that a Round to hundreds Front end HOO-100-3	
1. A video store has 1257 DVDs.	

 A video store 	has	1257	DVDs.
-----------------------------------	-----	------	-------

Model 1257 using base ten blocks.

1257-848=

Draw your model in the place value chart.

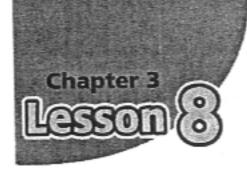
Thousands Hundreds		
/ Humdreds	Tens	Ones
N.X	MIS	XXXX
	Mundreds X	Humdreds Tens

Step 2: Draw your model after regrouping.

Thousands	Hundreds	Tens	Ones	011
	MXX	IHI	4 + 1 0	40

Step 3: Subtract 780. Draw your model after subtracting.

Thousands	Hundreds	Tens		C	ne	es	
		0	9	0	0	0	0



Regrouping before Subtracting

GOAL

Solve subtraction problems by regrouping first.

1. Calculate by regrouping.

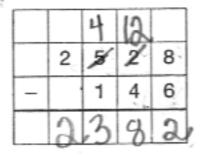
2000 / - 500 /

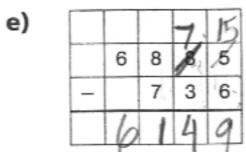
			6	13
	1	9	7	3
_	-	5	2,.	7.
	ATTACHED TO	17	4	6

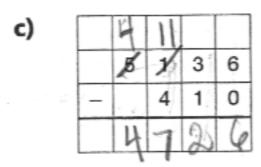
d)

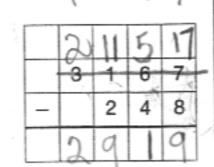
f)

		-	13	
	3	2	مار	8
-	A second	1	9	4,
	3	0	4	4









At-Home Help

To help you subtract, you can regroup. For example:

- You need more than
 4 hundreds to take away
 6 hundreds. You can
 regroup 2 thousands
 4 hundreds as 1 thousand
 14 hundreds.
- You need more than 2 ones to take away 3 ones. You can regroup 9 tens 2 ones as 8 tens 12 ones.

2. Calculate using regrouping or mental math.

c)
$$5008 - 2997 = 2011 - 2997$$

b)
$$1875 - 1364 = 61$$

d)
$$2738 - 342 = \frac{2700}{3600 - 300 - 2700}$$

$$\frac{2738}{-342}$$

$$\frac{-342}{2396}$$

Subtracting from 4-Digit Numbers



Use a paper and pencil method to subtract from a 4-digit number.

 Estimate the difference. Then subtract. Show your work.

a) $\frac{312}{3234}$ -5332701

d) 1129 - 411 1719 check

At-Home Help

You can subtract larger numbers by regrouping the top number in several steps.

8000-500-1500₁₃₅₁₆ 1366 - 448

2000 b) $\frac{10315}{2045}$ $\frac{1000}{1000}$ $\frac{-1236}{809}$ $\frac{199}{2000}$ $\frac{199}{2000}$ $\frac{199}{2000}$ $\frac{199}{100}$ $\frac{199}{100}$ $\frac{199}{100}$ $\frac{199}{100}$ $\frac{199}{100}$ $\frac{199}{100}$

e) 4566 1500 - 807 -1000 159 / 500

The answer seems reasonable $\frac{2000}{1000}$ because $\frac{1400 - 400}{1000} = \frac{1000}{1000}$ and 918 is close to 1000.

f) 5003 13 - 347 4686

5000-300- 4700

2. Estimate and solve.

a) The average yearly precipitation (rain and snow) in Toronto is 819 mm. The greatest average yearly precipitation in Canada is 6655 mm in Henderson Lake, B.C. What is the difference in precipitation between Henderson Lake and Toronto?

7000- 800= 6200

een 6655

b) A town has 1100 adults. 589 are women. How many men are there?

1000-500=500

- 589

c) A school is trying to raise \$1000 for a charity. \$795 has already been raised. How much more money must the school raise?

1000-800-200

3.9 Subtracting by Renaming Page 1

Student Book pages 92-93

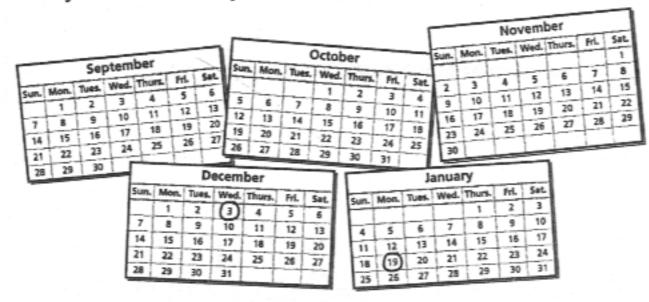
GOAL

Use renaming to make subtraction easier.

Problem

Vera's class is having a party on the 100th day of school.

Today is the 67th day of school.



100 + 1. - 67-- 22 +V



How many days are there until the 100th day of school?

Subtract by renaming to solve the problem.

Step 1: Rename 100 as 99 + 1.

	 9	9	+	1
	1	0	0	
_		6	7	
				=

Step 2: Subtract.

100 -100 -107 -33

Step 3: Add 1 to the answer.

Hint: You need to add 1 because you renamed 100 as 99 + 1.

There are 33 days until the 100th day of school.

Name:	
Traine.	

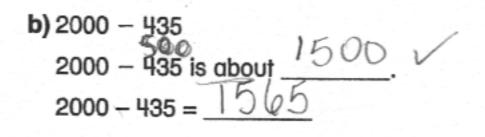
3.9 Subtracting by Renaming Page 2

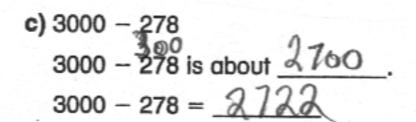
Reflecting

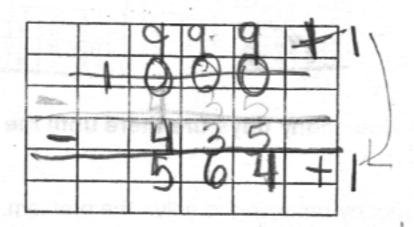
How	does renaming make subtracting easier?
	It makes subtraction easier with
	zeros by outling 9's in the
	top subtraction equation

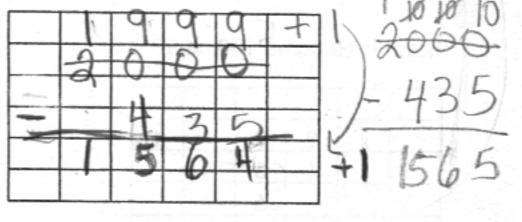
Write a subtraction question that you could solve by renaming the numbers first.

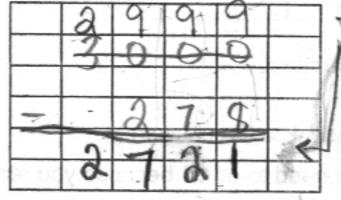
4. Estimate. Then calculate.





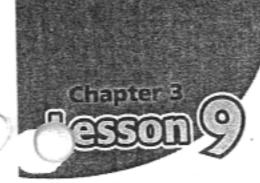






to you down of

Name:		Date:	 	-2	
	-				



Subtracting by Renaming

answer kuy GOAL

Use renaming to make subtraction easier.

1. Estimate each difference.

- b) 1000 197 is about _ 800
- c) 3000 964 is about 2000
- d) 5000 330 is about 4700

1999	- California
999 -197 802+1	

At-Home Help

To help you subtract, you can rename. For example: I want to know 4000 - 2864. I can rename 4000 as 3999 + 1 to make it easier to subtract.

2. Subtract by renaming.

a)
$$999+1 \text{ (NeW c)}$$

 $\frac{1000}{513}+1 \sqrt{500}$

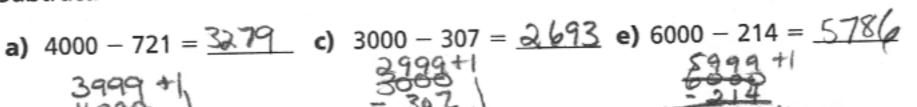
3. Subtract.

a)
$$4000 - 721 = 32.79$$

$$3000 - 307 = 2073$$

$$3000 - 307 = 2073$$

$$3000 - 307 = 2073$$



b)
$$1000^{\frac{3}{2}} \frac{278}{192} = 808$$

808 d)
$$5000 - 536 = 4464$$
 f) $2000 - 1642 = 358$

Subtracting in a Different Way



Use regrouping to make subtraction easier.

1. Finish each subtraction.

a)
$$1999+1$$

 2000
 -655
 1344

c)
$$\frac{1999+2}{5001}$$
 3129 $\frac{-1872}{3127+2}$

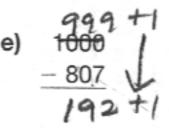
At-Home Help

If the top number in a subtraction has many zeroes, you can regroup in 1 step.

The answer is reasonable because 2000 - 800 = 1200and 1245 is close to 1200.

2. Estimate each difference. Then subtract. Show your work.

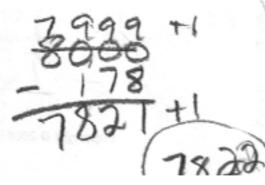
c)
$$\frac{1999 + 6}{2005}$$
 $\frac{-621}{1378}$ $\frac{1}{1}$

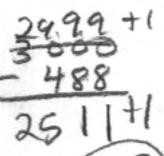


b)
$$\frac{1999}{2000} + 1$$
 $\frac{1236}{763+1}$ $\frac{1}{764}$

Correct any unreasonable answers.

a)
$$8000 - 178 = 7822$$





-		
C&P	Name:	

anower Ley

Date: ___

teacher

7.10 Estimating Decimal Sums and Differences Page 1

Student Book pages 240-242

Key

GOAL

Estimate sums and differences with decimal tenths and hundredths.

Checking

1. Estimate how much money Ethan spent this week.

Step 1: Estimate the amount Ethan spent each day.

On Monday, Ethan spent about \$ 7 . OC

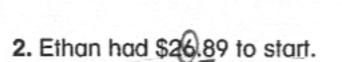
On Wednesday, Ethan spent about \$ 6.00

On Saturday, Ethan spent about \$ 12.00.

Step 2: Add your estimates.

\$ 7.00 + \$ 6.00 + \$ /2.00 = \$25.00

Ethan spent about \$_25___ this week.



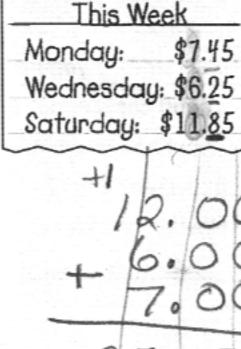
Estimate how much money Ethan has left.

Step 1: Ethan had about \$27.00 to start.

Step 2: Subtract your total estimate from question 1 from \$26.89.

\$26.89 - \$ 25.00 = \$ 1.89

Ethan has about \$ 1.89 left.



What I Spent

27.00

25.00

\$2.00

-25.00

\$1.89

C&P Name:	Date:	
The state of the s	 	

7.10 Estimating Decimal Sums and Differences Page 2

		(00)
Practising	Penny's Pitas	actual
3. Jade ordered a pita and soup from Penny's Pitas.	Yogurf \$ 1.29	Jode +1 +1
a) Estimate the cost of Jade's order.	Pita \$@75	2.75
$\frac{3.00}{PHa} + \frac{1.00}{Soup}$ is about $\frac{4.00}{9}$.	Juice \$ 1.25 Milk \$ 0.89	#4.14
Yogurt costs about \$	€ 800p 0237	Considua
About how much more money did Jade spend, than Gen? \$ 4,00 - 1,00 +3.00	Fruit \$ 1.85 Salad	#1.29
How do you know? Be cause I rounded to +	he closest	3 x 14 -4.14 - 1.29

4. Michael has \$3.50 to spend on food from Penny's Pitas.

He wants to buy soup, milk, and a pita.

Does Michael have enough money?

Step 1: Estimate the cost of each item. Soup: \$1.39 is about \$ _ Milk: \$0,89 is about \$ _

Pita: \$2,75 is about \$

Step 2: Add your estimates.

+ \$ 1.00 + \$ 3.00 is about \$ 500

Does Michael have enough money? \overline{N} δ

How do you know?

C&P Name:		Date:	
3.10 Communicating	about Number Con	cepts and Pr	ocedures Page 1
Student Book pages 94–35	Leacher	examp	Q .
	+each	_	

Explain your thinking when estimating a sum or difference.

Checking

- 1. The circus had 6000 tickets to sell.
 - It sold 1631 adult tickets.
 - · It sold 3712 children's tickets.

How many tickets are left?

Step 1: Estimate how many adult tickets were sold.

Circle the closer hundred:

1600

1631

1700

Step 2: Estimate how many children's tickets were sold.

Circle the closer hundred:

3700

3712

3800



Step 3: Add your estimates.

adult

children's

tickets sold



Step 4: Subtract.

6000 - 5 300 = tickets left tickets sold

Is your estimate reasonable?

How do you know? Use the Communication Checklist to explain.

Communication Checklist

✓ Did you show the right amount of detail?

Did you explain your thinking?

	and Procedures Page
actising	
Bryan scored 2815 points in level 1 of a video game.	
He scored 3947 points in level 2.	
He needs to reach 7500 points.	
How many points does he need to score in level 3?	grand the state of
Step 1: Estimate. Show your steps.	
Step 2: Calculate. Show your steps.	
How do you know your answer is reasonable?	

L Name:	Date:
3.10 Communicating about Number Conce	pts and Procedures Page 1
Explain your thinking when estimating a sum or difference.	
Problem	
Joshua is selling tickets for the school play. He started with 200 tickets. He has sold 148 tickets.	
Joshua estimates that there are about 50 tickets left.	
Is Joshua's estimate reasonable?	
Estimate 200 — 148.	
Step 1: Round 148 to the closest ten	
Step 2: Subtract that number from 200. Show your work.	
Is Joshua's estimate reasonable? Explain your thinking.	

3.10 Communicating about Number Concepts	and Frederice rug
Reflecting	
Check your answer using the Communication Checklist. How could you improve your answer?	Communication Checklist Did you show the right amount of detail? Did you explain your thinking?

Communicating about Number Concepts and Procedures

GOAL

Chapter 3

Explain your thinking when estimating a sum or difference.

1. The chart shows the number of people in 3 towns. Jade calculated that the total number of people is 7500. Is her answer reasonable? Explain.

Town	Number of people
Willowbrook	1497
Argent	3140
Freeman	2073

At-Home Help

You can estimate to check whether an answer is reasonable or not.

Communication Checklist

- ✓ Did you show the right amount of detail?
- Did you explain your thinking?

2. Add or subtract.

3. Explain how you know your answer to part f) of Question 2 is reasonable.

Chapter 3

Test Yourself



Circle the correct answer.

- **1.** Estimate 398 + 403.
 - A. about 800
- **B.** about 700
- C. about 900
- D. about 600

- 2. Estimate 498 + 1015 + 2499.
 - A. about 3000
- **B.** about 3500
- **C.** about 4000
- D. about 4500

- 3. Calculate 1630 + 321.
 - A. 4631
- **B.** 1951
- C. 1621
- **D.** 1930

- 4. Calculate 2518 + 105 + 3245.
 - **A.** 5855
- **B.** 5813
- **C.** 5868
- **D.** 5788
- 5. At the school fair, Tien earned 2504 points, Cole earned 1013 points, and Emily earned 2995 points. If they add their points together, about how many points do they have?
 - A. about 5000 points

C. about 8000 points

B. about 6500 points

D. about 9500 points

- 6. Estimate 2989 1015.
 - **A.** about 2500 **B.** about 1500
- **C.** about 3000
- **D.** about 2000

- 7. Calculate 3000 496.
 - **A.** 2504
- **B.** 2604
- **C.** 3496
- **D.** 2696

- Calculate 5893 641.
 - **A.** 5841
- **B.** 5252
- **C.** 4852
- **D.** 5351

- Calculate 6000 1432.
 - A. 5578
- **B.** 4668
- C. 5678
- **D.** 4568



Name:	Date:	
Chapter 3 Test	er Answer Key	
a) 350 - 99 2 25	what you did. (show your work)	
$\frac{350 - 100}{1000 - 499} = \frac{350 + 1}{501}$	7 100 300 350 501	
1000 - 500 - 500+1 c) 500 - 175=325	500 looo 8	
$\frac{500}{4} = \frac{300}{3000} = \frac{300}{1001} + 25$	ms 200 500 325	
3000 - 2000 = 1000+1	1999 3000 1001	
Estimate. Then calculate. Show your w	ork	
3000-300= 2700	he exact answer is 3029	
3300 - 300 = 3000	- 32 86 - 257	
	→ 0 3 A	
b) 5471 - 841 is about 4200. 5500 - 800 = 4700 5000 - 800 = 4200	The exact answer is 4630 8	
c) 7421 - 460 is about 6500.	The exact answer is 696	
7000 - 500 = 6500	<u>- 460</u> 6961	
d) 8822 - 1162 is about 8000.	The exact answer is 7660	
9000 - 1000 - 8000	-1162	
lan plans to read 2000 pages this year. So far, he has read 1054 pages. How many more pages does he need to read? Use the subtracting by renaming strategy.		
1999 + 1 -1054	946 pages	
945 +1	17	

Name:

0.0