Name:	Date:			
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### 3.1 Solving Problems by Estimating Page 1

Student Book pages 68-69

### GÖÄL

Estimate sums of 2-digit numbers to solve problems.

### **Problem**

Lang wrote a story.

His story has 3 pages.

- Page 1 has 21 words.
- Page 2 has 43 words.
- Page 3 has 45 words.



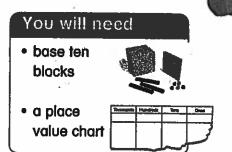
### Did Lang write more than 100 words?

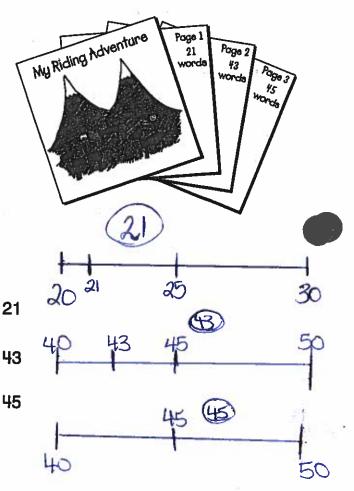
Use base ten blocks to show the number of words on each page.

Hundreds	Tens	Ones
	Karenauko k	Ø
	श्चित्रकारात्रम्यः इत्याव्यक्तम्यः श्चित्रकारम्यः	
	esenteral es	80000

Step 1: Count the tens.

How many tens are there?





Solving Problems by Estimating Page 2  p 2: Does Lang need to count the ones to know if he has more in 100 words?  I do you know?  Lang write more than 100 words?  Lang write more than 100 words?  I has 42 words.  I e 2 has 65 words.  I can Jodi find out if she wrote more than 100 words?  E can take the lowest estimate than this than this can take the highest estimate the highest estimate the highest than this higher than the higher than this higher than the higher than higher than the higher	
Lang write more than 100 words?  Lang write more than 100 words?  "lecting "is story is 2 pages long. If 1 has 42 words. If 2 has 65 words.  If 2 can fake the lowest estimated than 100 words?  The actual will higher than 100 words?	
Lang write more than 100 words?  Plecting  I's story is 2 pages long.  I'e 1 has 42 words.  I'e 2 has 65 words.  I'v can Jodi find out if she wrote more than 100 words?  I'v can take the lowest estimated than this can take the highest estimated than this higher than than this higher than	
Lang write more than 100 words?  Plecting  I's story is 2 pages long.  Ise 1 has 42 words.  Ise 2 has 65 words.  I'v can Jodi find out if she wrote more than 100 words?  I'v can Jodi find out if she wrote more than 100 words?  I'v can take the lowest estimated than this can take the highest estimated will higher than this	kd t
i's story is 2 pages long.  je 1 has 42 words.  je 2 has 65 words.  I'v can Jodi find out if she wrote more than 100 words?  Let can take the lowest estimated than this can take the highest estimated will higher than this higher than	
i's story is 2 pages long.  je 1 has 42 words.  je 2 has 65 words.  I'v can Jodi find out if she wrote more than 100 words?  Let can take the lowest estimated than this can take the highest estimated will higher than this higher than	
i's story is 2 pages long.  se 1 has 42 words.  se 2 has 65 words.  I'v can Jodi find out if she wrote more than 100 words?  E can take the lowest estimated than 100 than this  than this can take the highest estimated than this higher than	
the 1 has 42 words.  The 2 has 65 words.  The can take the lowest estimates than 100 words?  The can take the lowest estimates than this can take the highest estimates the highest estimates the highest than this higher than	
e 2 has 65 words.  If can Jodi find out if she wrote more than 100 words?  E can take the lowest estimated than this can take the highest estimated will a shigher than this higher than	
e can take the lowest estimated that the actual will than this can take the highest estimated the highest estimated that the highest estimated the highest	
e can take the lowest estimate of 42 + 65  40 + 60 = * the actual will than this can take the highest estimate the highest estimate the highest than this higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	
of 42 + 65  40 + 60 = * the actual will in the thon this  can take the highest estimate that the actual will higher than	nate
40 + 60 = * the actual will not than this can take the highest estimate the highest estimate the higher than	
can take the highest estimated will the actual will higher than	not be smaller
50 + 70 = + the alquar than	number
50 + 70 = + the alquar than	e.
50 + 70 = + the alquar than	
	this number
botusen the lowest	and
highest is:	

			Date:
1 Solving Pro dent Book pages 68-69	blems by Estim	nating Page 1	
GOAL			You will need
Estimate sums of	3-digit numbers to	solve problems	• base ten blocks
hecking		W	• a place
I. Maya wrote a st	ory.		value chart
The first page ha	ad 275 words.		
The second page	e had 250 words.		39
Does her story h	ave more than 500	words?	
Step 1: Circle the How do you know	e kind of answer you	u need: exac	t estimate
How do you kno	w?		t estimate
How do you kno	-	e ten blocks.	t estimate
How do you kno	w? 75 and 250 with bas	e ten blocks.	Ones
Step 2: Model 2 Draw your mode	w? 75 and 250 with bas Is in the place value	e ten blocks. chart.	
Step 2: Model 2 Draw your mode	w? 75 and 250 with bas Is in the place value	e ten blocks. chart.	
Step 2: Model 2 Draw your mode  Number  275	w? 75 and 250 with bas Is in the place value	e ten blocks. chart.	

C&P Name:		9	Date:		
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### 3.1 Solving Problems by Estimating Page 2

### **Practising**

4. Your school has \$800 to spend on a computer and a printer.

The computer costs \$575.

The printer costs \$275.

Does your school have enough money?



Step 1:(Circle) the kind of answer you need: exact estimate

**Step 2:** Estimate 575 + 275.

Model the numbers using base ten blocks.

Draw your models.

Number	Hundreds	Tens	Ones
575			
275			

Does your school have enough money?	
How do you know?	

Le	apte	r 3	Œ	1
	550			

Name:	Date:	
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# **Solving Problems by Estimating**

check

**GOAL** 

Estimate sums of 3-digit numbers to solve problems.

1. Use mental math to calculate the first sum. Use that sum to estimate the next sum.

c) 
$$100 + 50 =$$
\_\_\_\_\_, so  $96 + 53 =$ about \_\_\_\_\_

2. Estimate each sum. Show your work.

3. Cole's father saved \$600 for furniture. He wants to buy a rug for \$277 and a lamp for \$303. Does he have enough money? Show your work.

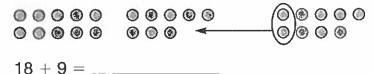
= 600

# **Adding Mentally**



### Use mental math strategies to add 2-digit numbers.

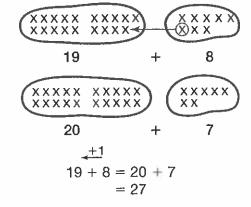
**1.** Move counters to make the addition easier. Then write the answer.



2. Use mental addition.

### At-Home Help

Moving counters from one group to another can sometimes make adding easier.



- Use mental math to solve these problems.
  - a) There are 38 students in Mrs. Jones's classroom and 23 students in Mr. Singh's classroom.

How many students are there altogether?

b) Payden has 48 cents and Jill has 22 cents.

How much money do they have altogether?\_\_\_\_\_

c) Avis is 19. Her grandmother is 58 years older.

How old is Avis's grandmother?

d) There are 37 cans on one shelf and 43 on another.

How many cans are there altogether?

e) There are 28 large paper clips and 38 small paper clips.

How many paper clips are there altogether?

### Try These

Circle the best estimate. Explain how you estimated.

20 +30=50

possible estimates 60 70 + 40 = 30

b)(48 +/46

80 90 100

40 + 40 = Or

c) 37 + 25

50

60

70

2 3

51

71

5

11 12 13 14 15 16 17 18 19

21 22 23 24 25 26 (27) 28 29

42 43 44 45 46 47 48 49

52 53 54 55 56 57 58 59

91 92 93 94 95 96 97 98 99 100

61 62 63 64 65 66 67 68 69

72 73 74 75 76 77

82 83 84 85 86 87

31 32 33 34 35 36

9

37438 39

78 79

88 89

30

50

60

70

90

30+20=

0r

2. Estimate each sum.

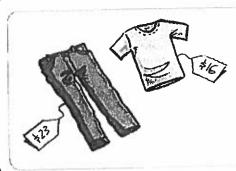
Show the numbers you used to estimate.

- **a)** 32 + 41 is about \_\_\_\_\_.
- **b)**  $\sqrt{17} + 58$  is about .
- c) (29 +(36 is about \_\_\_\_\_.
- 3. Arya uses a 100 chart to add 27 + 28. He adds 28 in parts by adding 20 and then adding 8. To add 20, go down 2 rows. To add 8, go forwards 8 or go down 1 row (that's + 10) and then back 2 (that's -2). Use the 100 chart to add. Use a different colour for each addition.

a)	22	+	11	=	
,					 _

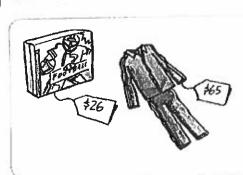
4. What is the total cost?

a)



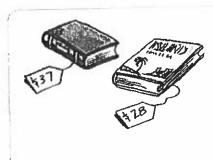
16+83=00

b)



26765 =

c)



37 +28 =

5. Show 2 ways to complete each addition.

a) 48 + 7

50+7=

50+10=60

**b)** 67 + 24

67+20

70+24

70 + 20 = 90

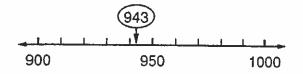
## **Estimating Sums**

Name \_\_\_\_\_

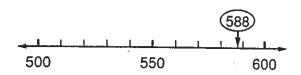
# Estimate the sum by rounding to the nearest 100.

943 + 588 = |

Round each number to the nearest 100.



943 rounds to 900



588 rounds to 600

Add the rounded numbers.

### Estimate by rounding to the nearest 100.

# **Addition: Regrouping**

Addition means "putting together" or adding two or more numbers to find the sum. For example, 3 + 5 = 8. To regroup is to use ten ones to form one ten, ten tens to form one 100, and so on.

**Directions:** Add using regrouping.

Example:

Add the ones. Add the tens with regrouping.





The Blues scored 63 points. The Reds scored 44 points. How many points were scored in all?

# Adding Two-Digit Numbers

athway 2

You can add 27 + 28 to find out the number of students in 2 classes.

To add 27 + 28, estimate first.
27 + 28 is close to 25 + 25, or 50.
Your answer should be about 50.
You could also estimate using 30 + 30.





### You will need

- base fen blocks
- place value charts (tens, ones)
- number lines
- 100 charts

 You can add by modelling with base ten blocks.
 Count the number of each kind of block and do any trading you have to.





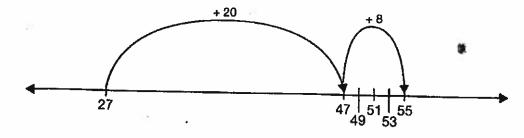
27 <u>+ 28</u> 55

There are 4 tens and 15 ones. Trade 10 ones for 1 ten. That's 5 tens and 5 ones, or 55.

You can record addition in different ways.

07		
27	or	27
<u>+ 28</u>		+ 28
40		15
<u>+ 15</u>		+ 40
55		55

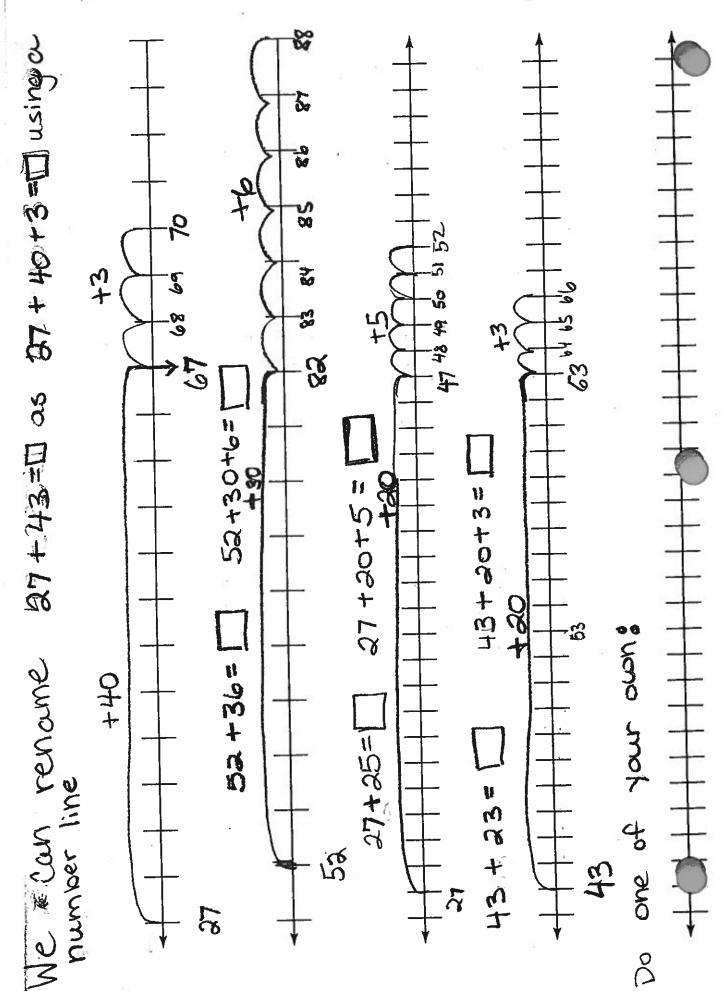
You can add in parts.
 You can add 28 by adding 20, then 8.



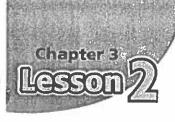
or

### Remember

 When you combine numbers, you should combine tens with tens and ones with ones.



	Name:				Date: _		
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# **Estimating Sums**

GOAL

Estimate sums in different ways.

1. Estimate each sum. Show your work.

a) 210 + 499 is about

**b)** 589 + 308 is about

c) 1072 + 994 is about

**d)** 3987 + 2001 is about

At-Home Help

Here are some ways to estimate sums.

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

2. Estimate each sum. Show your work.

a) 510 + 203 + 696 is about \_\_\_\_\_

**b)** 1080 + 5098 + 2900 is about \_\_\_\_\_

c) 929 + 1100 + 997 is about \_\_\_\_\_

**d)** 2033 + 1002 + 1977 is about \_\_\_\_\_

e) 3172 + 3030 + 2960 is about \_\_\_\_\_

f) 1072 + 2908 + 3978 is about \_\_\_\_\_

3. Jade wants to collect 8000 pennies, or \$80. She has a jar with 1048 pennies, a jar with 2083 pennies, and a jar with 3992 pennies. Does Jade have enough pennies? How do you know?

# **Estimating Sums**



### Estimate sums by rounding.

1. Estimate. Show your rounded numbers.

d) 999 + 1999 is about equal to

### At-Home Help

You can use rounded numbers to estimate a sum (the answer when you add).

close to 4000

close to 1000

The sum is about 4000 + 1000 = 5000.

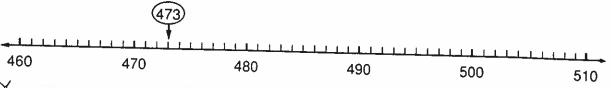
- 2. Estimate the answers to these problems. Show your rounded numbers.
  - a) Jack's mother drove 1245 km on Saturday and 985 km on Sunday. About how many kilometres did she drive on those 2 days?
  - b) 4856 people live in one town. 3345 live in another town. About how many people live in the 2 towns?

3. Use rounded numbers to find whether \$5000 is enough to buy both items in each part. Check your answers using a calculator.



Rounding Numbers	Name
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ound 473 to the nearest 10.



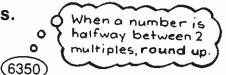


Think: the closest multiples of 10 are 470 and 480.

473 is closer to 470.

473 rounded to the nearest 10 is 470.

Use the number lines to complete the sentences. Round 6350 to the nearest 100.



6000 6100 6200 6300 6400 6500

Think: the closest multiples of 100 are \_\_\_\_\_ and \_\_\_\_.

6350 is halfway between \_\_\_\_\_ and \_\_\_\_.

6350 rounded to the nearest 100 is \_\_\_\_\_

### Round 87 692 to the nearest 1000.

2. (87 692 85 000 86 000 87 000 88 000 89 000 90 000

Think: the closest multiples of 1000 are \_\_\_\_\_ and \_\_\_\_.

87 692 is closer to \_\_\_\_\_.

87 692 rounded to the nearest 1000 is \_\_\_\_\_.

# Round the numbers. Use the number lines above if you wish.

- 497 to the nearest 10 \_\_\_\_\_\_ 4. 6420 to the nearest 100 \_\_\_\_\_
- 6180 to the nearest 100 \_\_\_\_\_\_ 6. 89 500 to the nearest 1000 \_\_\_\_\_

Multiples of	10,	100,	and
1000			

Name \_\_\_\_\_

Count by 10. Write the multiples of 10 between 20 and 130.

A multiple of 10 is a number whose last digit is O.

30 40 50 60 70 80 90 100 110 120

Complete.

1. Count by 100. Write the multiples of 100 between 600 and 1500.

A multiple of 100 is a number whose last 2 digits are 0.

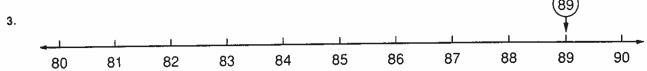
700.\_\_\_\_.900.\_\_\_\_,\_\_\_\_,\_\_\_.1300.\_\_\_\_

2. Count by 1000. Write the multiples of 1000 between 53 000 and 59 000.

A multiple of 1000 is a number whose last 3 digits are 0.

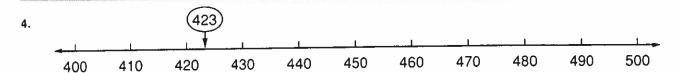
54 000 \_\_\_\_\_.56 000. \_\_\_\_.

Use the number lines to complete the sentences.



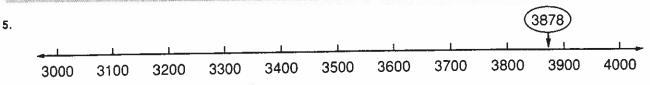
The multiples of 10 on the number line are \_\_\_\_\_ and \_\_\_\_.

The multiple of 10 closer to 89 is \_\_\_\_\_.



The multiples of 100 on the number line are \_\_\_\_\_ and \_\_\_\_.

The multiple of 100 closer to 423 is \_\_\_\_\_.



The multiples of 1000 on the number line are \_\_\_\_\_ and \_\_\_\_\_.

The multiple of 1000 closer to 3878 is \_\_\_\_\_.

### 3.2 Estimating Sums Page 1

Student Book pages 70-72

### GOAL

Estimate sums in different ways.

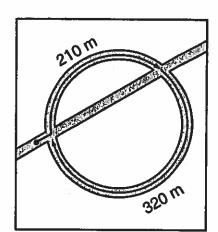
### **Problem**

Aneela plans to run the route shown at the right.



About how far will Aneela run?

Use two ways to estimate.



### Estimate by adding the hundreds:

Write the numbers in the place value chart.

The first one is done for you.

Number	Hundreds	Tens	Ones
210	2	1	0
320			

Circle the	hundreds.
CHOPING	Hollareas.

Add the circled hundreds.

\_\_\_\_\_ + \_\_\_\_ = \_\_\_\_

Aneela will run about \_\_\_\_\_ m.

1. Name:	Date:	
3.2 Estimating Sums Page 2		
Estimate using a number line		Ġ
0 100 200 300	<del>100</del> <del>500</del>	
Step 1: Find 210 on the number line	<b>.</b>	
200 is the closer hundred.	~3%	
Step 2: 310 is close to 300.		
Start at 200 and jump 300 m.		
Aneela will run about	_ m.	
Reflecting		
How would you estimate 280 + 1903	?	
		\(\int_{\int_{i}}\)
	24	
What other ways can you use to esti	imate sums?	
		22 7

C&P Name:	Date:	 251	
	6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		0.713(+)

### 3.2 Estimating Sums Page 1

Student Book pages 70-72

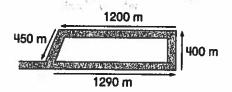
### GOAL

Estimate sums in different ways.

### Checking

1. Kate plans to run the route shown at the right.

Estimate how far she will run by adding the thousands.



Write the numbers in the place value chart.

The first one is done for you.

Number	Thousands	Hundreds	Tens	Ones
400	0	4	0	0
1290				
450				
1200				

(C	)irc	le)the	thou	sands.

Add the circled thousands.

C-3 (1) 1	-1	_	
100	т	_	
	•		

Kate will run about \_

Explain one other way you could estimate how far Kate will run.

C&P Name: Date:	¥4
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### 3.2 Estimating Sums Page 2



### 2. Estimate.

$$a)567 + 513$$

Add the closer hundreds using the number line.

Record all your jumps.

4. The chart shows the number of people who went to a 3-day folk festival. Estimate the total attendance.

Day	Attendance
Thursday	899
Friday	1799
Saturday	2375

Circle the closer hundreds.

Add the circled numbers.

About how many people attended the festival? \_

	Nam
Chapter 3	
Lesson 2	1

Name:	Date:	
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# **Estimating Sums**

GOAL

Estimate sums in different ways.

1. Estimate each sum. Show your work.

a) 210 + 499 is about 700 200+500 = 700 210+500=710

**b)** 589 + 308 is about

c) 1072 + 994 is about

**d)** 3987 + 2001 is about

At-Home Help

Here are some ways to estimate sums.

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

2. Estimate each sum. Show your work.

a) 510 + 203 + 696 is about  $500 + 200 + 700 = _____$ 

**b)** 1080 + 5098 + 2900 is about \_\_\_\_\_

c) 929 + 1100 + 997 is about \_\_\_\_\_

**d)** 2033 + 1002 + 1977 is about \_\_\_\_\_

e) 3172 + 3030 + 2960 is about \_\_\_\_\_

f) 1072 + 2908 + 3978 is about \_\_\_\_\_

3. Jade wants to collect 8000 pennies, or \$80. She has a jar 1048+ 2083+ with 3992 pennies. Does Jade have enough pennies? How do you know?

1000+2000+4000=

# **Estimating Sums**



### Estimate sums by rounding.

1. Estimate. Show your rounded numbers.

a) 1867 + 913 is about equal to

b) 3611 + 1489 is about equal to

c) 1156 + 2722 is about equal to

d) 999 + 1999 is about equal to

### At-Home Help

You can use rounded numbers to estimate a sum (the answer when you add).

$$3859 + 1321$$

close to 4000

close to 1000

The sum is about 4000 + 1000 = 5000.

- 2. Estimate the answers to these problems. Show your rounded numbers.
  - a) Jack's mother drove 1245 km on Saturday and 985 km on Sunday. About how many kilometres did she drive on those 2 days?
  - b) 4856 people live in one town. 3345 live in another town. About how many people live in the 2 towns?

3. Use rounded numbers to find whether \$5000 is enough to buy both items in each part. Check your answers using a calculator.

\$1648 a) \$4567



O French store & deltate and a second	0	Date:	
.3 Exploring Addition and	Subtraction		
GOAL			
Use your own strategies to add o to solve a problem.	and subtract numbe	rs	era ar
roblem		Jade's dres	
ade made jingle dresses for a pow	wow Sister's dr	ess	" AIA
ith her mother and sister.			
hey folded 100 pieces of metal into	cones.		Little Hill
hey sewed the cones onto 3 dresse	es.	1, 11, 11 2, 11, 11	AMA MANANA
How many cones were sewn on the mother's jingle dress:		s 32 cones	cones
se base ten blocks.			
tep 1: Model 100 using 9 tens	Hundreds	Tens	Ones
	Hundreds	Tens	Ones
ocks and 10 ones blocks. Draw	Hundreds	Tens	Ones
ocks and 10 ones blocks. Draw our model.		Tens	Ones
ocks and 10 ones blocks. Draw our model. tep 2: Subtract the number of	Hundreds	Tens	Ones
ocks and 10 ones blocks. Draw our model.  tep 2: Subtract the number of ones on the sister's jingle dress.			
ocks and 10 ones blocks. Draw our model.  tep 2: Subtract the number of ones on the sister's jingle dress. o subtract 16, take away 1 ten			
ocks and 10 ones blocks. Draw our model.  tep 2: Subtract the number of ones on the sister's jingle dress. o subtract 16, take away 1 ten and 6 ones. Draw your model.			Ones
tep 1: Model 100 using 9 tens locks and 10 ones blocks. Draw our model.  tep 2: Subtract the number of ones on the sister's jingle dress. o subtract 16, take away 1 ten and 6 ones. Draw your model.  tep 3: Subtract the number of ones on Jade's jingle dress.	Hundreds	Tens	
tep 2: Subtract the number of ones on the sister's jingle dress. to subtract 16, take away 1 ten and 6 ones. Draw your model.	Hundreds	Tens	Ones
ocks and 10 ones blocks. Draw our model.  tep 2: Subtract the number of ones on the sister's jingle dress. o subtract 16, take away 1 ten and 6 ones. Draw your model.  tep 3: Subtract the number of ones on Jade's jingle dress.	Hundreds	Tens	Ones
ocks and 10 ones blocks. Draw our model.  Tep 2: Subtract the number of ones on the sister's jingle dress. It is subtract 16, take away 1 ten and 6 ones. Draw your model.  Tep 3: Subtract the number of ones on Jade's jingle dress. It is subtract 32, take away 3 tens	Hundreds	Tens	Ones

C&P Name:	Date: <u>·</u>	
3.3 Exploring Addition and Subtraction		
Student Book page 73		
GOAL		
Use your own strategies to add and subtract numbers to solve a problem.		
Jade made jingle dresses for a powwow		
with her mother and sister.	R SO	200

They folded 1000 metal lids into cones.

They sewed the cones onto 3 dresses.



How can you calculate the number of cones on the mother's jingle dress?



199 cones

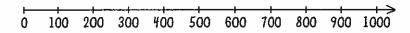


299 cones



cones

Use a number line.



Step 1: Start at 1000 because there are 1000 cones in total.

Subtract the number of cones on the sister's dress.

Rename 199 as 200 - 1.

Subtract 200 now and add the 1 later.

Step 2: Subtract the number of cones on Jade's jingle dress.

Rename 299 as 300 - 1.

Subtract 300 now and add the 1 later.

Step 3: Add the 2 cones.

How many cones are on the mother's jingle dress?

What other strategies could you use to solve the problem?



	1
	7
200	

Name:	Date:	
-------	-------	--

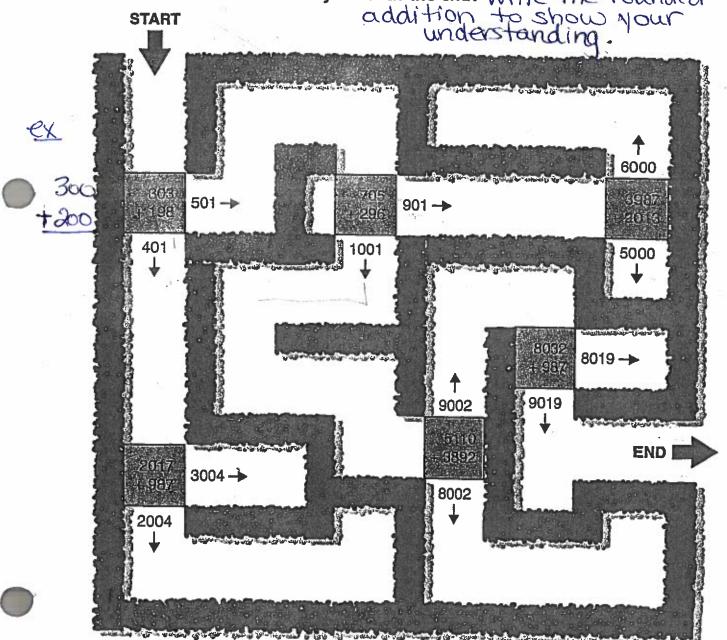
# **Exploring Addition and Subtraction**

GOAL

ींग्लानंबर इं

Use your own strategies to add and subtract numbers to solve a problem.

Start at the beginning of the maze. When you come to a sum, solve it. Follow the correct answer. Can you reach the end? Write the rounded



# Communicate About Number **Concepts and Procedures**



### Explain your thinking when estimating a sum.

1. Is each answer reasonable? Explain.

- 2. Use a calculator to solve each problem

  - How many tickets were sold altogether?

### At-Home Help

Estimation can help you to find out if an answer is reasonable.

8332

5000 and 7000.

This answer to 2567 + 3765 is reasonable because 2000 + 3000 = 5000 and 3000 + 4000 = 7000. The answer should be between

d)	1569 + 3750 = 4319	 	 	

	e a calculator to solve each problem.  plain why your answer is reasonable.	
a)	1517 tickets were sold for blue seats at a hockey game. 3567 tickets were sold for red seats. How many tickets were sold altogether?	
b)	5245 children's tickets were sold for a circus. 2345 adult tickets were sold.	

Student Book pages 74-76

### GOAL

Solve addition problems by adding from left to right.

### **Problem**

A forklift operator wants to lift 3 containers.

The forklift can safely lift up to 400 kg.



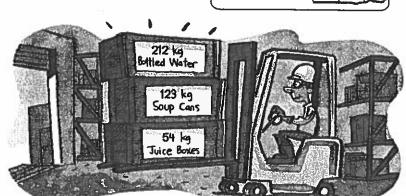
Can the forklift safely lift all 3 containers?

Use base ten blocks.

Step 1: Model each number with

base ten blocks.

Draw your models.



You will need

• base ten blocks

• a place

value chart

Hundreds	Tens	Ones	)
			212
			123
			54

Name:	Date:

Step 2: Add the hundreds.

Step 3: Add the tens.

Step 4: Add the ones.

Step 5: Add the hundreds, tens, and ones.

+	4	=	
 - 1	 ,		

Can the forklift safely lift all 3 containers?

How do you know?

### Reflecting

How could you have predicted whether the forklift could safely lift all 3 containers?

C&P Name:	Date:	
C&P Name:	Date:	

Student Book pages 74-76



Solve addition problems by adding from left to right.

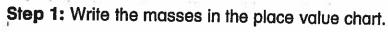
### Checking

1. A forklift can lift 8000 kg safely.

The operator needs to lift 3 containers.

- Container 1 has a mass of 2455 kg.
- Container 2 has a mass of 849 kg.
- Container 3 has a mass of 4567 kg.

Can the 3 containers be lifted safely?



This Step has been done for you.



Mass	1	Thousands	Hundreds	Tens	Ones
2455		2			E 123
849		0	W 9	11 to 12	
4567	+	4		5 11 31	
		6 6		e.	
				10	
	+				
					<u></u>

Step 2: Add from left to right. Write the totals in the table.

The thousands have been done for you.

C&P Name:	Date:	
-----------	-------	--

	A	and the	5
1	q		þ
- 0		1	j
1	9	30	ŀ

i) Can the forklift lift all 3 co How do you know?	ontainers?	***
a) Did you estimate to solve	e the problem or did you calc	ulate an exact answer?
J Dia you commune to come	•	603 - 3890 - 39 <u>2</u>
Explain.		

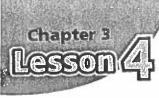
### **Practising**

6. Add from left to right.

a)		1	2	5	9
	+		6	1	8
	+				
					<u> </u>

b)		6	9	6	3
	<b>*</b> +	2	3	6"	4 -
	+				





# **Adding from Left to Right**

### GOAL

Solve addition problems by adding from left to right.

**1.** Add from left to right. Show your work.

a)

	1	3	1	1
+		6	4	5

d)

5	0	6	7
3	6	2	1
-			

b)

	2	4	1	5
+	3	2	2	1

e)

	4	1	1	1
+	1	7	0	3

c)

	6	2	2	4
+	1	7	6	8
		=		
25				
		Lt.		

f)

	1	1	4	3
+		2	5	1
		4	0	2

### At-Home Help

Follow these steps to add from left to right.

**Step 1** Add the thousands.

**Step 2** Add the hundreds.

**Step 3** Add the tens.

Step 4 Add the ones.

**Step 5** Add them all together to calculate the sum.

For example:

	 ***		
Name:	 	Date:	

# Scaffolding for Lesson 4, Questions 3 & 6 Page 2

STUDENT BOOK PAGE 76

6. Calculate. Show your work. Some of the steps are done for you.

a)						
		1	2	5	9	
	+		6	1	8	
ő		-1	0	0		

+     6     1     8       1     0     0     0       8     0     0		1	2	5	9
	+		6	1	8
8 0 0		1	0	0	0
			8	0	0
	+				

c)

	4	2	1	1	
		3	4	5	
+		9	6	7	
	4	0	0	0	
gan ganga gari	AND NO ADMINISTRAÇÃO	1	1	0	
+					

b)

	6	9	6	3
1	2	3	6	4
	8	0	0	0
	1	2	0	0
<b>-</b>				

d)

	1	5	6	7	-
	1	5	7	8	
+	2	5	6	7	
	4	0	0	0	
	A AMERICAN STREET				
+					

Name:	

### 3.5 Adding From Right to Left Page 1

Student Book pages 78-80

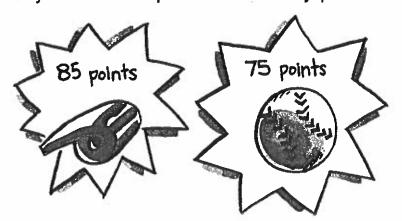
### GOAL

Solve addition problems by adding from right to left.

### **Problem**

Aneela's school collects food labels to get points.

They can trade the points for school equipment.



# You will need base ten blocks a place value chart

How many points does Aneela's school need for the whistle and baseball?

Use base ten blocks.

Step 1: Model the numbers with base ten blocks.

Hundreds	Tens	Ones
	TO CENTERED TO SERVICE	00000
	Titterent Titterent Terrents Genesis Genesis Genesi	

				$ \setminus $
	8	5		
+	1	5		
				1
ستستنشن	-	سنستند	ستعششت	J

Step 2: Add the ones.

\_\_\_\_\_ + \_\_\_\_ = \_\_\_\_

L No	ame:	Date:	

### 3.5 Adding From Right to Left Page 2



Step 3: Regroup the ones. Add a ten.

Hundreds	Tens	Ones
	THEOREM STREETH STREET	

					_
	1				$\setminus$
	8	5			7
F	7	5			$\setminus$
٦		0			1
فتعتد		Name of Street		-	1
	+	1 8 + 7	+ 7 5	+ 7 5	+ 7 5

realonb.
Trade 10 smaller
units for 1 larger unit,
or 1 larger unit for 10
smaller units

Step 4: Add the tens.

Step 5: Regroup the tens. Add a hundred.

Hundreds	Tens	Ones	
	destructs)		

Step 6: Add the blocks.

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Aneela's school needs \_\_\_\_\_ points.

Reflecting

How do you know when to regroup when you are adding from right to left?

You will need

base ten blocks

 a place value chart

### 3.5 Adding from Right to Left Page 1

Student Book pages 78-80

GOAL

Solve addition problems by adding from right to left.

### Checking

1. A school wants to use points to get 3 books.

This table shows how many points the school needs to get each book.

Day	Number of points needed
Sports book	1825
Astronomy book	1175
Dinosaur book	825

How many points does the school need?

Step 1: Model the points needed for each book using base ten blocks.

Draw your models in the place value chart.

Thousands	Hundreds	Tens	Ones					
					1	8	2	5
				+	1	1	7	5
				+		8	2	5
						فنتعب		النف

Step 2: Add the ones.

Do you need to regroup? \_\_\_\_\_

Step 3: Add the tens.

Do you need to regroup? \_\_\_\_\_

C&P	Na

### 3.5 Adding from Right to Left Page 2

Step 4: Add the hundreds.

Do you need to regroup? \_\_\_\_\_

Step 5: Add the thousands.

Do you need to regroup? \_\_\_\_\_

How many points does the school need? \_\_\_\_\_

### **Practising**

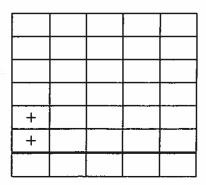
2. An online discussion group has a goal of 7500 postings.

The table shows how many postings it had.

Month	Number of postings
January	1535
February	2865
March	3145

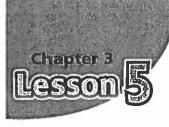
Did the group reach its goal? \_\_\_\_\_

Add the numbers of postings from right to left.



Do you need to regroup? \_\_\_\_\_

Did the group reach its goal?



# **Adding from Right to Left**

**GOAL** 

Solve addition problems by adding from right to left.

1. Add from right to left. Show your work.

**a**)

	1	2	2	5
+		4	3	1

c)

	4	0	7	2
+	3	7	2	4

b)

	1	7	6	0
+	1	2	4	8

d)

	8	6	4	3
+		6	4	8

- 2. Jade's mother saved \$3966 this year. Next year, she plans to save \$2992. Will she have enough money to buy a car that costs \$7000?
- 3. In September, Joshua's website had 227 visits. In October, it had 2143 visits. In November, it had 2324 visits. Has the number of visitors reached 5000?

### At-Home Help

You can regroup by trading 10 smaller units for 1 larger unit, or 1 larger unit for 10 smaller units. Follow these steps to add from right to left.

**Step 1** Add the ones. If the answer is 10 or more, regroup.

Step 2 Add the tens. If the answer is 100 or more, regroup.

Step 3 Add the hundreds. If the answer is 1000 or more, regroup.

**Step 4** Add the thousands. For example:

# Adding 4-Digit Numbers



### Solve addition problems using regrouping.

1. Complete the addition by writing in the spaces in the place value chart.

a)	Thousands	Hundreds	Tens	Ones
			1	
	2	7	3 /	2
	2	8	6	9
				1

b)	Thousands	Hundreds	Tens	Ones
	2	7	3	8
	6	4	3	9
		le	7	

### At-Home Help

You can add two 4-digit numbers by regrouping.

2539 + 1866

Thousands	Hundreds	Tens	Ones
1	1	1	
2	5	3	9
1	8	6	6
4	4	0	5

2539

The answer seems reasonable because 3000 + 2000 = 5000and the answer is close to 5000.

2. Estimate the sum. Then add.

- 3. Estimate. Then solve.
  - a) There are 3456 Girl Guides in one area and 1672 in another area. What is the total number of Girl Guides in both areas?
  - b) There are 1867 Wolf Cubs in one area and 4306 in another area. What is the total number of Wolf Cubs in both areas?