

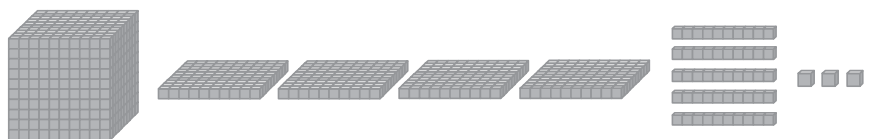
Whole Numbers to 10 000



Quick Review

You can show the number 1453 in different ways.

- Use Base Ten Blocks.



1 thousand

4 hundreds

5 tens

3 ones

- Use a place-value chart.

Thousands	Hundreds	Tens	Ones
1	4	5	3

- Use **expanded form**. $1453 = 1000 + 400 + 50 + 3$
- Use words. 1453 is one thousand four hundred fifty-three.

The number 1453 is written in **standard form**.

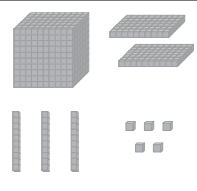
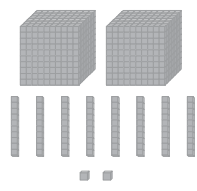
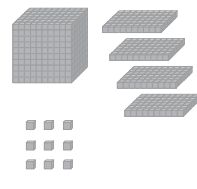
Every digit has a place value, depending on its position.

Try These

- Write each number in standard form.
 - two thousand six hundred thirteen _____
 - $8000 + 600 + 40 + 1$ _____
- Write each number in expanded form.
 - 7125 _____
 - 2307 _____
- Write each number in words.
 - 1620 _____
 - 3408 _____

Practice

1. Complete the chart.

	Standard Form	Expanded Form
		
		
		

2. Write each number in words.

a) 3602 _____

b) 5045 _____

3. Use each of these digits once to make each 4-digit number: 4, 2, 7, 5

a) the greatest possible number _____

b) the least possible number _____

c) the greatest number with 5 tens _____

d) the least number with 5 ones _____

Stretch Your Thinking

Use 5, 3, 1, and 7 once in each number you make.

Make as many 4-digit numbers as you can.

Comparing and Ordering Numbers



Quick Review

Here are some ways to order the numbers 3261, 3621, and 2163 from least to greatest.

- Use a place-value chart.

Thousands	Hundreds	Tens	Ones
3	2	6	1
3	6	2	1
2	1	6	3

↓
2163 has the fewest thousands, so it is the least number.

↓
Both 3261 and 3621 have 3 thousands. Compare their hundreds.
 $200 < 600$
So, $3261 < 3621$

$<$ means less than.
 $>$ means greater than.

- Use a number line.



From least to greatest: 2163, 3261, 3621

Try These

1. Compare each pair of numbers. Write $>$, $<$, or $=$.

a) $627 \square 485$ b) $2641 \square 4824$ c) $2683 \square 2683$

2. Write the numbers in order from least to greatest.

758, 709, 741 _____

3. Write the numbers in order from greatest to least.

7148, 6271, 7285 _____

Practice

1. Play this game with a partner.

The object of the game is to make the greater number.

You will need a paper bag containing 10 cards with the digits 0 to 9.

- Draw a card from the bag.
Record the digit in any space in the first row of your game board.
Return the card to the bag.
- Take turns until each player fills all four spaces in a row.
- Compare your numbers.
Write $>$ or $<$ in the box between the numbers.
The player with the greater number wins a point.
- Play two more rounds.
The player with the most points at the end of the game wins.

Player 1					Player 2			
_____	_____	_____	_____		_____	_____	_____	_____
_____	_____	_____	_____		_____	_____	_____	_____
_____	_____	_____	_____		_____	_____	_____	_____

2. a) Put your numbers from the game in order from least to greatest.

- b) Put your partner's numbers in order from greatest to least.

Stretch Your Thinking

Make up three 4-digit numbers.

Order the numbers from greatest to least.

Sorting Numbers

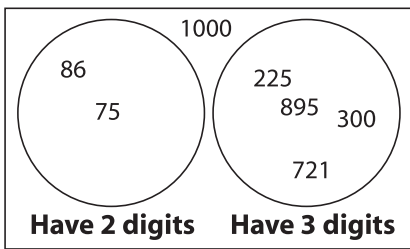


Quick Review

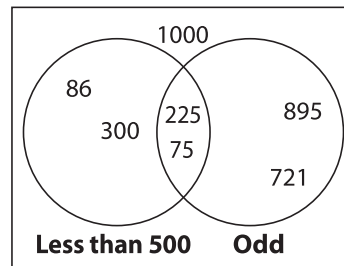
Here are four ways to sort these numbers.

86 225 895 300 75 1000 721

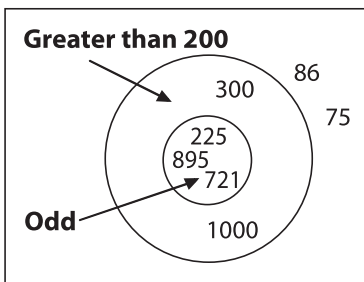
Venn Diagram



Venn Diagram



Venn Diagram



Carroll Diagram

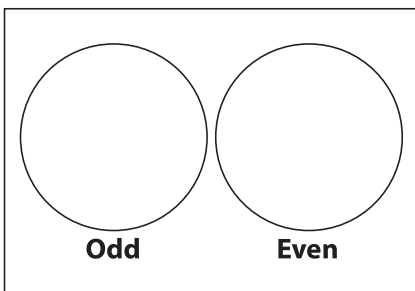
	Digits add to less than 10	Digits add to 10 or more
Even	300 1000	86
Odd	225	75 721 895

Try These

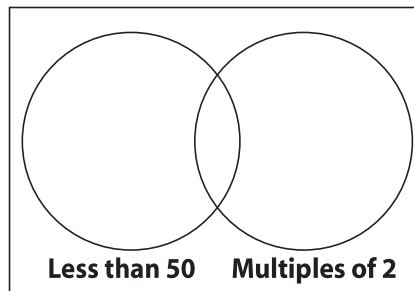
1. Use each Venn diagram to sort these numbers.

94 27 85 13 44 76

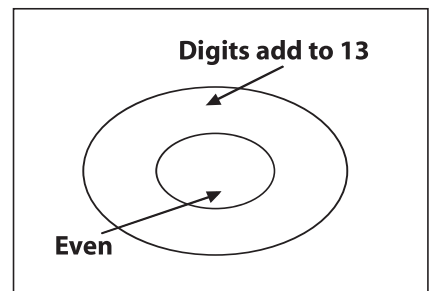
a)



b)



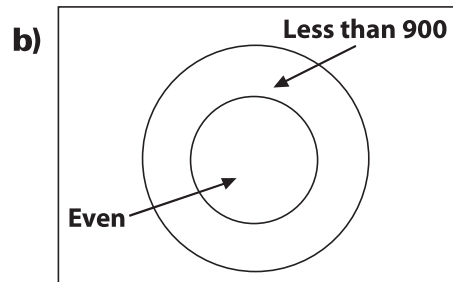
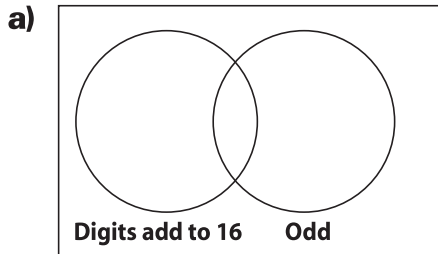
c)



Practice

1. Sort these numbers in each Venn diagram.

421 718 246 967 358 709 626



2. Use a coloured pencil to write one more number in each part of the Venn diagrams in question 1.

3. a) Sort these numbers in the Carroll diagram.

56 101 77 84 50 126
91 105

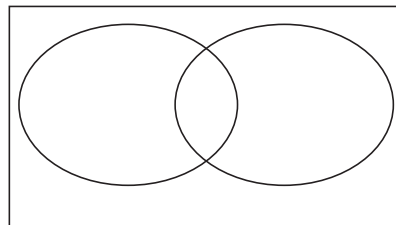
	Even	Odd
Multiples of 7		
Not Multiples of 7		

- b) Use a coloured pencil to write another number in each box in the Carroll diagram.

4. Elmo travels to Sweden every three years.
Sven visits Sweden every four years.
Both men went to Sweden in 2006.
Use a Venn diagram to find the year in which both men will visit Sweden again.
-

Stretch Your Thinking

Choose two attributes. Label the circles.
Sort these numbers in the Venn diagram.
1514 2658 947 352 685 4109



Estimating Sums



Quick Review

When a question asks “about how many,” you can estimate.

Here are some ways to estimate the sum of $294 + 351$.

- Write each number to the closest 100.

294 is closest to 300.

351 is closest to 400.

$$300 + 400 = 700$$

So, $294 + 351$ is about 700.

- Use **front-end estimation**.

Add the first digits of the numbers.

$$200 + 300 = 500$$

So, $294 + 351$ is about 500.

For a closer estimate:

Think about 94 and 51.

$$\text{This is about } 100 + 50 = 150.$$

So, $294 + 351$ is about $500 + 150 = 650$.

Try These

1. Estimate each sum.

a) $198 + 389$

Estimate: _____

b) $119 + 408$

Estimate: _____

c) $640 + 192$

Estimate: _____

d) $79 + 272$

Estimate: _____

e) $516 + 482$

Estimate: _____

f) $291 + 291$

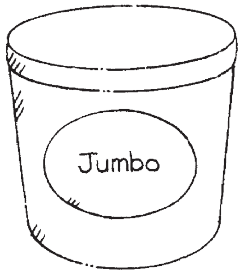
Estimate: _____

2. William estimated $246 + 585$ as 700.

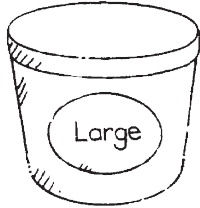
Is his estimate high or low? Explain.

Practice

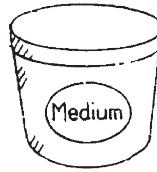
1. About how many beads would you have if you bought these sizes:



149
jumbo beads



285
large beads



399
medium beads



640
small beads

- a) small and large? _____ b) medium and jumbo? _____
c) medium and large? _____ d) jumbo and small? _____
2. The toy shop sold 117 wind-up cars and 289 battery-operated cars in one week. About how many cars did it sell? _____
3. Yolanda has a desktop publishing business. She wants to print 1000 items today. She actually prints 352 brochures and 581 flyers today.
- a) About how many items did she print? _____
b) Did Yolanda reach her goal? Explain.

4. Last summer, 227 children signed up for T-ball and 139 signed up for baseball. About how many children signed up altogether? _____

Stretch Your Thinking

The estimated sum of two numbers is 1000.
What might the numbers be? Give three different answers.

Using Mental Math to Add



Quick Review

- Use mental math to add: $267 + 197$
Use the strategy of make a “friendly” number.

197 is $200 - 3$.

Add 200, then take away 3.

$$267 + 200 = 467$$

$$467 - 3 = 464$$

So, $267 + 197 = 464$

200 is a friendly number because it is easy to add 200.

- Count on to add: $271 + 580$
Add 271 and 500. $271 + 500 = 771$

Count on by 10s eight times.

771, 781, 791, 801, 811, 821, 831, 841, 851

So, $271 + 580 = 851$

- Use mental math to add: $415 + 342$
Use the strategy of “adding on” from left to right.

Add on hundreds, then tens, and then ones.

Think: $415 + 300 + 40 + 2$

Count on 3 hundreds: 415, 515, 615, 715

Count on 4 tens: 715, 725, 735, 745, 755

Then add 2: $755 + 2 = 757$

So, $415 + 342 = 757$

Try These

1. Use mental math to add.

a) $262 + 345 = \underline{\hspace{2cm}}$ **b)** $497 + 222 = \underline{\hspace{2cm}}$ **c)** $370 + 163 = \underline{\hspace{2cm}}$

d) $399 + 544 = \underline{\hspace{2cm}}$ **e)** $262 + 290 = \underline{\hspace{2cm}}$ **f)** $196 + 341 = \underline{\hspace{2cm}}$

2. Becky gathered 316 clams and Charlie gathered 286.

How many clams did they gather in all? Use mental math to find out.

Practice

Use mental math.

1. Add.

a) $690 + 284 =$ _____

b) $2131 + 3468 =$ _____

c) $352 + 213 =$ _____

d) $229 + 493 =$ _____

For which problems did you make a "friendly" number? _____

2. Look at these containers.

If you bought the following groups of animals, how many toy animals would you have?



a) farm animals and zoo animals _____

b) sea creatures and jungle animals _____

c) zoo animals and jungle animals _____

3. Ridgetown has a population of 8317 people.

Mayberry has a population of 1291.

How many people live in the two towns? _____

4. The cafeteria sold 123 cartons of chocolate milk and 204 cartons of white milk. How many cartons of milk were sold? _____

Stretch Your Thinking

Use mental math to add: $453 + 197 + 205 =$ _____

Describe the strategy you used. _____

Adding 3-Digit Numbers



Quick Review

Geraldo has 276 hockey cards and 397 baseball cards.
To find how many cards Geraldo has in all, add: $276 + 397$

- Add from right to left.

	276
	+ 397
Add the hundreds:	500
Add the tens:	160
Add the ones:	13
Add the sums:	673

- Add from right to left.

Add the ones: 13 ones Regroup 13 ones as 1 ten and 3 ones.	Add the tens: 17 tens Regroup 17 tens as 1 hundred and 7 tens.	Add the hundreds: 6 hundreds
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$$\begin{array}{r} 1 \\ 276 \\ + 397 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 11 \\ 276 \\ + 397 \\ \hline 73 \end{array}$$

$$\begin{array}{r} 11 \\ 276 \\ + 397 \\ \hline 673 \end{array}$$

Geraldo has 673 cards in all.

Try These

1. Add.
- | | | | | |
|--|--|--|--|---|
| a) $\begin{array}{r} 295 \\ + 104 \\ \hline \end{array}$ | b) $\begin{array}{r} 327 \\ + 415 \\ \hline \end{array}$ | c) $\begin{array}{r} 299 \\ + 463 \\ \hline \end{array}$ | d) $\begin{array}{r} 508 \\ + 419 \\ \hline \end{array}$ | e) $\begin{array}{r} 285 \\ + 79 \\ \hline \end{array}$ |
|--|--|--|--|---|

2. There were 139 more people at the soccer game on Saturday than on Friday. On Friday there were 472 people at the game.

How many people were at the game on Saturday? _____

Practice

1. Estimate first.

Circle the letters next to the examples for which the sum will be less than 900.

Then, add to find all the sums.

a) $\begin{array}{r} 738 \\ + 191 \\ \hline \end{array}$

b) $\begin{array}{r} 637 \\ + 439 \\ \hline \end{array}$

c) $\begin{array}{r} 109 \\ + 488 \\ \hline \end{array}$

d) $\begin{array}{r} 718 \\ + 237 \\ \hline \end{array}$

e) $\begin{array}{r} 367 \\ + 662 \\ \hline \end{array}$

f) $\begin{array}{r} 482 \\ + 519 \\ \hline \end{array}$

g) $\begin{array}{r} 234 \\ + 410 \\ \hline \end{array}$

h) $\begin{array}{r} 689 \\ + 130 \\ \hline \end{array}$

i) $\begin{array}{r} 651 \\ + 259 \\ \hline \end{array}$

j) $\begin{array}{r} 318 \\ + 491 \\ \hline \end{array}$

2. Estimate first.

Circle the letters next to the examples for which the sum will be greater than 700.

Then, add to find all the sums.

a) $\begin{array}{r} 418 \\ + 231 \\ \hline \end{array}$

b) $\begin{array}{r} 526 \\ + 437 \\ \hline \end{array}$

c) $\begin{array}{r} 381 \\ + 294 \\ \hline \end{array}$

d) $\begin{array}{r} 108 \\ + 592 \\ \hline \end{array}$

e) $\begin{array}{r} 397 \\ + 459 \\ \hline \end{array}$

f) $\begin{array}{r} 362 \\ + 282 \\ \hline \end{array}$

g) $\begin{array}{r} 583 \\ + 199 \\ \hline \end{array}$

h) $\begin{array}{r} 435 \\ + 428 \\ \hline \end{array}$

i) $\begin{array}{r} 339 \\ + 382 \\ \hline \end{array}$

j) $\begin{array}{r} 282 \\ + 531 \\ \hline \end{array}$

3. Add: $419 + 386$

Explain your strategy.

4. What is the greatest 3-digit number you can add to 457 without having to regroup in any place? _____

Stretch Your Thinking

The sum of two numbers is 853. What might the numbers be?

Find two pairs of numbers. _____

Adding 4-Digit Numbers



Quick Review

- $1756 + 4828$
Use column addition.

1000s	100s	10s	1s
1	7	5	6
+ 4	8	2	8
5	15	7	14
6	5	7	14
6	5	8	4

15 hundreds is 1 thousand 5 hundreds
14 ones is 1 ten 4 ones

- $1756 + 2469$
Add from right to left.

Add the ones. Add the tens. Add the hundreds. Add the thousands.
Regroup. Regroup. Regroup.

1 1756 + 2469 <hr/> 5	11 1756 + 2469 <hr/> 25	111 1756 + 2469 <hr/> 225	111 1756 + 2469 <hr/> 4225
--------------------------------	----------------------------------	------------------------------------	-------------------------------------

Estimate to check that the sum is reasonable.

1756 is close to 2000. 2469 is
close to 2000. $2000 + 2000 = 4000$

4225 is close to 4000.
So, the sum is reasonable.

Try These

1. Find each sum. Estimate to check.

a) 5558
 $+ 1343$

b) 3047
 $+ 2828$

c) 4189
 $+ 3673$

d) 1847
 $+ 5684$

2. Estimate each sum.

a) $3276 + 4192$
Estimate: _____

b) $1258 + 3769$
Estimate: _____

c) $2672 + 3409$
Estimate: _____

Practice

1. Play this game with a partner.

You will need:

1 number cube labelled 1 to 6

- ▶ Take turns rolling the number cube.
On each roll, both players record the digit rolled in one of the boxes in their first addition grid.
- ▶ After 8 rolls, players add.
The player with the greater sum wins.
- ▶ Repeat with the other addition grids.

Player A		Player B	
$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$
$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$
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Stretch Your Thinking

The sum of two 4-digit numbers is 4589.

What might the two numbers be?

Give two different answers.

Estimating Differences



Quick Review

Here are some strategies for estimating differences.

- Estimate: $513 - 289$

Write each number to the nearest 100 and subtract.

$$500 - 300 = 200$$

So, $513 - 289$ is about 200.

To get a closer estimate, write only one number to the closest 100.
 $513 - 300 = 213$.
 So, $513 - 289$ is about 213.

- Estimate: $4592 - 2369$

Use front-end estimation.

$$4592 \rightarrow 4000$$

$$2369 \rightarrow 2000$$

$$4000 - 2000 = 2000$$

So, $4592 - 2369$ is about 2000.

Use the digits in the thousands place. Replace the other digits with zeros.

Try These

1. Estimate each difference.

a) $749 - 263$

b) $504 - 327$

c) $988 - 214$

Estimate: _____

Estimate: _____

Estimate: _____

d) $4580 - 1235$

e) $677 - 48$

f) $6896 - 1583$

Estimate: _____

Estimate: _____

Estimate: _____

2. Natalie estimated $584 - 126$ as 400. Is her estimate high or low? Explain.

Practice

1. Use the data in the chart to estimate each difference.

School Lunches Served

Day	Number Served
Monday	286
Tuesday	327
Wednesday	489
Thursday	417
Friday	648

- a) About how many more lunches were served on Friday than on Monday? _____
- b) About how many more lunches were served on Thursday than on Tuesday? _____
- c) About how many more lunches were served on Wednesday than on Tuesday? _____
2. Laleh estimated the difference of 7654 and 4111 as 4000, and Sam estimated the difference as 3500.
- a) How might Laleh have estimated?

- b) How might Sam have estimated?

- c) Whose estimate is better? Explain.

Stretch Your Thinking

Find a pair of 3-digit numbers that have an estimated difference of 520.

Using Mental Math to Subtract



Quick Review

Here are some strategies for using mental math to subtract.

- Use the strategy of “make a friendly number.”

Subtract: $719 - 398$

Add 2 to 398 to make 400.

Add 2 to 719 to make 721.

$721 - 400 = 321$

So, $719 - 398 = 321$

Subtract: $437 - 103$

Subtract 100 instead of 103.

$437 - 100 = 337$

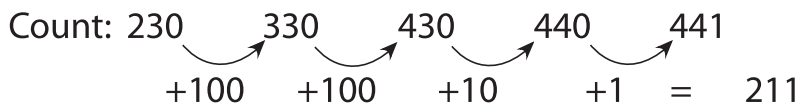
Then subtract 3.

$337 - 3 = 334$

So, $437 - 103 = 334$

- Use the strategy of “counting on.”

Subtract: $441 - 230$



So, $441 - 230 = 211$

Try These

1. Use mental math to subtract.

a) $427 - 299 =$ _____ **b)** $625 - 495 =$ _____ **c)** $586 - 397 =$ _____

d) $256 - 101 =$ _____ **e)** $748 - 403 =$ _____ **f)** $462 - 202 =$ _____

g) $4272 - 2150 =$ _____ **h)** $7758 - 3547 =$ _____ **i)** $6894 - 1673 =$ _____

2. Laslo travelled 637 km on Saturday and 402 km on Sunday.
How much farther did he travel on Saturday than on Sunday?
Use mental math to find out. _____

3. The hot dog stand served 250 hot dogs on Friday and 481 on Saturday.
How many more hot dogs were served on Saturday than on Friday?
Use mental math to find out. _____

Practice

1. Use mental math to find each difference.
Then use the letters next to the differences to solve the riddle.

What did King Tut say
when he was scared?

$543 - 260 = \underline{\quad\quad\quad} \text{ (B)}$

$622 - 415 = \underline{\quad\quad\quad} \text{ (E)}$

$894 - 517 = \underline{\quad\quad\quad} \text{ (N)}$

$583 - 298 = \underline{\quad\quad\quad} \text{ (I)}$

$499 - 354 = \underline{\quad\quad\quad} \text{ (M)}$

$314 - 189 = \underline{\quad\quad\quad} \text{ (U)}$

$532 - 220 = \underline{\quad\quad\quad} \text{ (T)}$

$847 - 606 = \underline{\quad\quad\quad} \text{ (Y)}$

$684 - 302 = \underline{\quad\quad\quad} \text{ (W)}$

$717 - 402 = \underline{\quad\quad\quad} \text{ (Z)}$

$536 - 199 = \underline{\quad\quad\quad} \text{ (C)}$

$632 - 421 = \underline{\quad\quad\quad} \text{ (F)}$

$947 - 624 = \underline{\quad\quad\quad} \text{ (L)}$

$231 - 111 = \underline{\quad\quad\quad} \text{ (A)}$

285

382

120

377

312

145

241

145

125

145

145

241

Stretch Your Thinking

Describe two ways to find $4000 - 3894$.

Practice

1. Subtract. Check your answers.

a)
$$\begin{array}{r} 836 \\ - 451 \\ \hline \end{array}$$

Check:

b)
$$\begin{array}{r} 726 \\ - 538 \\ \hline \end{array}$$

Check:

c)
$$\begin{array}{r} 736 \\ - 528 \\ \hline \end{array}$$

Check:

2. Use mental math to find each difference.

a) $400 - 263 = \underline{\hspace{2cm}}$

b) $501 - 248 = \underline{\hspace{2cm}}$

c) $450 - 231 = \underline{\hspace{2cm}}$

3. Estimate first. Then subtract the numbers for which the difference will be less than 300.

a)
$$\begin{array}{r} 591 \\ - 375 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 436 \\ - 168 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 624 \\ - 235 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 716 \\ - 371 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 327 \\ - 79 \\ \hline \end{array}$$

4. Ms. Green's class collected 600 cans for recycling.
Mr. Hso's class collected 427 cans.
How many more cans did Ms. Green's class collect?

5. Sanil's school had a book sale.
On Monday they sold 697 books.
On Tuesday they sold 842 books.
How many more books did they sell on Tuesday?

Stretch Your Thinking

The difference of two numbers is 329.
What might the numbers be? Find two pairs of numbers.

Subtracting 4-Digit Numbers



Quick Review

Subtract: $2053 - 997$

You can use place value to subtract from right to left.

Regroup 1 ten as 10 ones.

Subtract the ones.

$$\begin{array}{r} 43 \\ 20\cancel{5}\cancel{3} \\ - 997 \\ \hline 06 \end{array}$$

Regroup 1 thousand as 10 hundreds.

Regroup 1 hundred as 10 tens.

$$\begin{array}{r} 94 \\ 1\cancel{1}\cancel{0}\cancel{4}3 \\ 20\cancel{5}\cancel{3} \\ - 997 \\ \hline 06 \end{array}$$

Subtract the tens.

Subtract the hundreds.

Subtract the thousands.

$$\begin{array}{r} 94 \\ 1\cancel{1}\cancel{0}\cancel{4}3 \\ 20\cancel{5}\cancel{3} \\ - 997 \\ \hline 056 \end{array}$$

Check.

► By adding:

$$\begin{array}{r} 997 \\ + 1056 \\ \hline 2053 \end{array}$$

The sum should be the number you started with.

► By estimating:

$$2000 - 1000 = 1000$$

1000 is close to 1056.

So, the answer is reasonable.

Try These

1. Subtract.

a)
$$\begin{array}{r} 4532 \\ - 2121 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 5726 \\ - 248 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 7243 \\ - 5685 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 4029 \\ - 388 \\ \hline \end{array}$$

2. Subtract. Check your answer.

a)
$$\begin{array}{r} 9354 \\ - 3287 \\ \hline \end{array}$$

Check:

b)
$$\begin{array}{r} 7600 \\ - 1452 \\ \hline \end{array}$$

Check:

Practice

1. Estimate. Then subtract.

a)
$$\begin{array}{r} 3059 \\ - 2298 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 5138 \\ - 4479 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 8209 \\ - 5919 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 5439 \\ - 3216 \\ \hline \end{array}$$

Estimate: _____ Estimate: _____ Estimate: _____ Estimate: _____

2. Manjit and Irene like to collect acorns.

Manjit collected 1286 acorns and Irene collected 898.

How many more acorns did Manjit collect than Irene? _____

3. Play this game with a partner.

You will need:

1 number cube

paper

pencils

➤ Each player draws a subtraction grid like this:

—				

➤ Take turns rolling the number cube.

After each turn, both players record the digit rolled in any box in their grid.

➤ After 8 rolls, players subtract.

The player with the greater difference wins.

Play 5 or more games.

Stretch Your Thinking

A 3-digit number is subtracted from a 4-digit number.

The difference is 426. What could the two numbers be? Give two answers.

Solving Addition and Subtraction Problems



Quick Review

Jakob delivered 2472 flyers in March, 3854 in April, and 1962 in May. How many flyers did Jakob deliver in all?

► Add: $2472 + 3854 + 1962$

$\begin{array}{r} 2472 \\ 3854 \\ + 1962 \\ \hline 8288 \end{array}$	Add the ones.
	Add the tens. Regroup.
	Add the hundreds. Regroup.
	Add the thousands.

Jakob delivered 8288 flyers.

Jakob was paid \$165 for his work. He bought a pair of skates for \$119. Later, he bought a hockey stick for \$18. How much money did Jakob have left?

► Subtract: $\begin{array}{r} 165 \\ - 119 \\ \hline 46 \end{array}$ Then subtract 18 from the result: $\begin{array}{r} 46 \\ - 18 \\ \hline 28 \end{array}$

Jacob has \$28 left.

Try These

1. Add.

a) $\begin{array}{r} 4723 \\ 6415 \\ + 3027 \\ \hline \end{array}$

b) $\begin{array}{r} 8962 \\ 3471 \\ + 536 \\ \hline \end{array}$

c) $\begin{array}{r} 1357 \\ 2468 \\ + 2389 \\ \hline \end{array}$

d) $\begin{array}{r} 4572 \\ 3002 \\ + 5679 \\ \hline \end{array}$

2. Estimate to check each answer in question 1. Show your work.

a) _____

b) _____

c) _____

d) _____

Practice

1. Maddy had \$1467 in her bank account.
She withdrew \$247 one week and \$135 the next week.
How much money did Maddy have left in her account?

2. Play this game with a partner.
You will need a number cube labelled 1 to 6.
 - Take turns to roll the number cube.
On each roll, both players record the digit rolled in one of the boxes in the first addition grid.
 - After 12 rolls, add.
The player with the greater sum wins.
 - Repeat with the other grids.

Player A		Player B	
$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$
$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$
+ $\square \square \square \square$	+ $\square \square \square \square$	+ $\square \square \square \square$	+ $\square \square \square \square$
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$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$
$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$	$\square \square \square \square$
+ $\square \square \square \square$	+ $\square \square \square \square$	+ $\square \square \square \square$	+ $\square \square \square \square$
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Stretch Your Thinking

The sum of three 4-digit numbers is 5638.

What might the numbers be? _____