

## Practice

- Are there more than 1000 or fewer than 1000:
  - hairs on a horse? \_\_\_\_\_
  - grains of sand on the beach? \_\_\_\_\_
  - left-handed students in your school? \_\_\_\_\_
  - fingers and toes in your classroom? \_\_\_\_\_
- Name 3 places where you might see 1000 people.  
\_\_\_\_\_
- Ms. Mansfield is making geoboards for the students in her class. Each geoboard takes 100 pins. How many geoboards can Ms. Mansfield make with 1000 pins? Show how you know.
- Pumpkin seeds come in packages of 50. Mr. Conrad bought 1000 seeds. How many packages did he buy? Use pictures, numbers, or words to explain.

## Stretch Your Thinking

Find as many ways as you can to buy exactly 1000 paper clips.



500						
250						
100						

# Strategies for Addition Facts



## Quick Review

Here are some strategies for addition.

- Use **near doubles**.

To find  $7 + 8$ , think:

$$7 + 7 = 14$$

$7 + 8$  is 1 more.

$$\text{So, } 7 + 8 = 15$$

- Make 10.

To find  $7 + 5$ , think:

$7 + 3$ , plus another 2



Make 10.

$$7 + 5 = 12$$

- When you add, order does not matter.

$$2 + 6 = 6 + 2$$

$$\text{So, } 2 + 6 = 8$$

- When you add 0, the number does not change.

$$3 + 0 = 3$$

## Try These

1. Add. Use doubles facts to help you.

a)  $5 + 6 =$  \_\_\_\_\_

b)  $5 + 4 =$  \_\_\_\_\_

c)  $7 + 8 =$  \_\_\_\_\_

d)  $8 + 9 =$  \_\_\_\_\_

e)  $6 + 7 =$  \_\_\_\_\_

f)  $4 + 5 =$  \_\_\_\_\_

2. Add. Use the facts for 10 to help you.

a)  $9 + 5 =$  \_\_\_\_\_

b)  $8 + 7 =$  \_\_\_\_\_

c)  $8 + 4 =$  \_\_\_\_\_

d)  $8 + 6 =$  \_\_\_\_\_

e)  $5 + 8 =$  \_\_\_\_\_

f)  $9 + 7 =$  \_\_\_\_\_

## Practice

1. Play this game with a partner.

You will need:

9 small cards numbered 10 to 18 in a paper bag

25 counters of 1 colour and 25 of another colour

Take turns to play:

- Draw a card from the bag.

Find 2 numbers on the game board that add up to the number on the card.

Cover the 2 numbers with your counters.

- Put the card back in the bag.

- Play until one player cannot cover 2 numbers.

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

## Stretch Your Thinking

Play the game again. This time, you may cover 2, 3, or 4 numbers that add up to the number on the card.

# Relating Addition and Subtraction



## Quick Review

Some number facts are **related**.

If you know  $3 + 8 = 11$

then you know  $8 + 3 = 11$

and you know  $11 - 8 = 3$

$11 - 3 = 8$

Related facts give us strategies for subtraction.

For example, to find  $11 - 3$  we can think  $3 + ? = 11$ .

$3 + 8 = 11$

So,  $11 - 3 = 8$

## Try These

1. Use each set of numbers to write a set of related facts.

a) 6, 4, 10 \_\_\_\_\_

b) 5, 9, 14 \_\_\_\_\_

c) 7, 7, 14 \_\_\_\_\_

d) 9, 15, 6 \_\_\_\_\_

2. Write the related facts for each given fact.

a)  $6 + 8 = 14$  \_\_\_\_\_

b)  $7 + 5 = 12$  \_\_\_\_\_

c)  $13 - 6 = 7$  \_\_\_\_\_

d)  $10 - 8 = 2$  \_\_\_\_\_

## Practice

1. Play this game with a partner.

You will need:

2 sets of cards numbered 1 to 9

a paper bag

10 small counters for each player

➤ Partners each pick a grid.

➤ Put the numbered cards in the bag and shake.

➤ Take turns.

Draw 2 cards.

Add or subtract the 2 numbers on the cards.

Put a counter on your grid on the sum or the difference.

If there is already a counter on the number, you cannot put another one there.

➤ Keep playing until one player has covered all the numbers on his or her grid.

0	1	2	3	4
5	6	7	8	9

0	1	2	3	4
5	6	7	8	9

## Stretch Your Thinking

The numbers in a set of related facts are 9, 4, and

- a) What could the missing number be? \_\_\_\_\_

Write the related facts.

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- b) What is another possible missing number? \_\_\_\_\_

Write the related facts.

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# Addition and Subtraction Equations



## Quick Review

An **equation** is a statement that 2 things are equal.

These are all equations.

$6 + 4 = 10$

$9 = 2 + 7$

$3 + 6 = 4 + 5$

$6 + \square = 15$

$8 - 2 = 6$

$10 - \square = 2$

$4 = 10 - 6$

$9 - 2 = 8 - 1$

Here are some strategies to solve the equation  $7 + \square = 15$ .

► Use 15 counters.



$7 + 8 = 15$

► Use mental math.

$7 + 10 = 17$

So,  $7 + 8 = 15$

► Use guess and check.

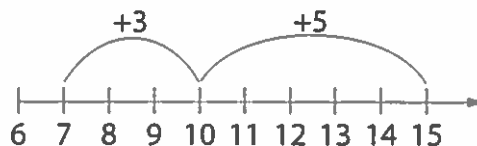
$7 + 7 = 14$

The sum is too low.

$7 + 8 = 15$

So, the missing number is 8.

► Use a number line.


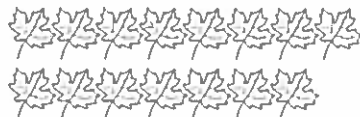



$3 + 5 = 8$

So,  $7 + 8 = 15$

## Try These

1. Find each missing number.

<p>a)</p>  <p><math>6 + \underline{\quad} = 13</math></p>	<p>b)</p>  <p><math>\underline{\quad} + 9 = 15</math></p>	<p>c)</p>  <p><math>12 - \underline{\quad} = 7</math></p>
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## Practice

1. Find each missing number. Draw a picture for each.

a)     $11 - \underline{\quad} = 4$	b)     $6 + \underline{\quad} = 15$	c)     $\underline{\quad} + 4 = 13$
d)     $14 - \underline{\quad} = 6$	e)     $\underline{\quad} - 2 = 9$	f)     $9 + \underline{\quad} = 16$

2. Solve each equation. Use any strategy you wish.

a)  $12 - \underline{\quad} = 9$

b)  $\underline{\quad} + 7 = 16$

c)  $\underline{\quad} - 8 = 2$

d)  $3 + \underline{\quad} = 12$

e)  $15 - \underline{\quad} = 7$

f)  $5 + \underline{\quad} = 13$

g)  $15 - \underline{\quad} = 9$

h)  $\underline{\quad} - 5 = 9$

i)  $\underline{\quad} + 9 = 18$

3. What number do you subtract from 11 to make 9? Explain.

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## Stretch Your Thinking

Find the missing numbers:  $\underline{\quad} - 8 = \underline{\quad}$

Show as many different ways as you can.

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# Estimating Sums



## Quick Review

When you do not need an exact answer, you **estimate**.

Bella has 58 silver stars and 21 gold stars.

About how many stars does Bella have?

Estimate:  $58 + 21$

Here are 3 ways to estimate.

➤ **Take Each Number to the Closest 10**

$$58 \rightarrow 60$$

$$21 \rightarrow 20$$

$$60 + 20 = 80$$

Bella has about 80 stars.

➤ **Take One Number to the Closest 10**

$$58 \rightarrow 60$$

$$60 + 21 = 81$$

Bella has about 81 stars.

➤ **Add Only the Tens Digits**

58 has 5 tens.

21 has 2 tens.

$5 \text{ tens} + 2 \text{ tens} = 7 \text{ tens, or } 70$

Bella has about 70 stars.

## Try These

1. Circle the better estimate for each sum.

a)  $51 + 23$

70 or 80

b)  $44 + 39$

70 or 80

c)  $38 + 16$

40 or 50

d)  $61 + 28$

80 or 90



## Practice

1. Circle the 2 numbers that will give the sum closest to:

a) 90:    40      55      36      39      18

b) 70:    22      38      60      50      59

c) 60:    14      30      39      18      28

2. Estimate each sum.

Problem	Estimate
$42 + 19$	
$38 + 22$	
$11 + 20$	
$77 + 15$	
$23 + 28$	

Problem	Estimate
$19 + 40$	
$36 + 29$	
$68 + 31$	
$43 + 19$	
$51 + 29$	

3. The estimated sum of 2 numbers is 40.

What might the 2 numbers be?

Give 2 different answers.

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4. Art and Carol estimate that the sum of 2 numbers is 89.

The 2 numbers are 48 and 39.

How might they have estimated?

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## Stretch Your Thinking

Circle the 2 numbers that will give the sum closest to 90.

12    18    46    70    81    32

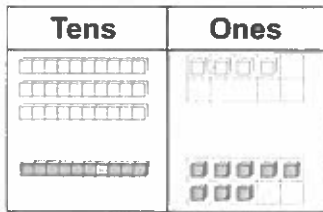
# Adding 2-Digit Numbers



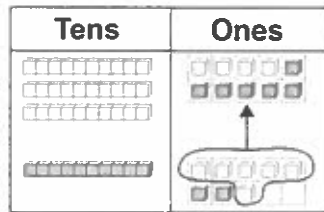
## Quick Review

► Find:  $34 + 18$

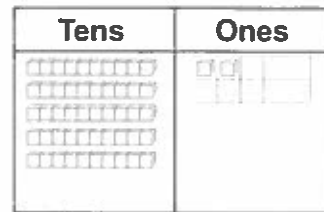
Here are 2 ways.



$34 + 18$



Put 10 ones together to make 10.



Trade 10 ones for 1 ten. This makes 5 tens and 2 ones.  
 $34 + 18 = 52$

► Record 34 and 18 as tens and ones.

$34 = 30 + 4$

$18 = 10 + 8$

Add the tens:  $30 + 10 = 40$

Add the ones:  $4 + 8 = 12$

Add the sums:  $40 + 12 = 52$

## Try These

1. Add.

a)  $35 + 22 = \underline{\quad}$

b)  $28 + 41 = \underline{\quad}$

c)  $37 + 53 = \underline{\quad}$

d)  $51 + 43 = \underline{\quad}$

e)  $38 + 47 = \underline{\quad}$

f)  $51 + 16 = \underline{\quad}$

g)  $46 + 13 = \underline{\quad}$

h)  $57 + 35 = \underline{\quad}$

i)  $52 + 26 = \underline{\quad}$

## Practice

1. Add.

a)  $45 + 13 = \underline{\hspace{2cm}}$     b)  $67 + 19 = \underline{\hspace{2cm}}$     c)  $49 + 32 = \underline{\hspace{2cm}}$

d)  $59 + 23 = \underline{\hspace{2cm}}$     e)  $48 + 18 = \underline{\hspace{2cm}}$     f)  $37 + 54 = \underline{\hspace{2cm}}$

2. Add to find the answer to the riddle.

Match each letter to its answer.

Riddle: Where do horses go when they are sick?

$18 + 36 = \underline{\hspace{2cm}}$  (H)

$53 + 46 = \underline{\hspace{2cm}}$  (S)

$47 + 25 = \underline{\hspace{2cm}}$  (P)

$36 + 39 = \underline{\hspace{2cm}}$  (O)

$28 + 33 = \underline{\hspace{2cm}}$  (R)

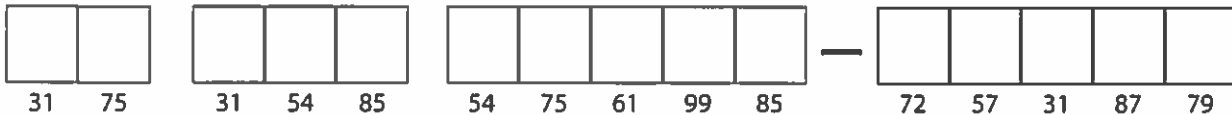
$19 + 38 = \underline{\hspace{2cm}}$  (I)

$14 + 17 = \underline{\hspace{2cm}}$  (T)

$26 + 53 = \underline{\hspace{2cm}}$  (L)

$62 + 25 = \underline{\hspace{2cm}}$  (A)

$41 + 44 = \underline{\hspace{2cm}}$  (E)



## Stretch Your Thinking

Suppose you could choose 2 boxes of markers.

Find all the possible pairs.



Write a number sentence to show how many markers are in each pair.

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# Using Mental Math to Add



## Quick Review

When you add in your head, you do **mental math**.

Jake bought 28 guppies and 24 goldfish.  
How many fish did Jake buy altogether?

Here are some ways to use mental math to add  $28 + 24$ .

- Add the tens, then the ones. Then add sums.
- Use a "friendly" number.



$28 = 20 + 8$

$24 = 20 + 4$

$20 + 20 = 40$

$8 + 4 = 12$

$40 + 12 = 52$

So,  $28 + 24 = 52$ .



28 is close to 30.

$30 + 24 = 54$

$28 + 24$  is 2 less.

So,  $28 + 24 = 52$ .

Jake bought 52 fish.

## Try These

Use mental math.

1. Add.

a)  $46 + 28 = \underline{\quad}$       b)  $18 + 24 = \underline{\quad}$       c)  $55 + 38 = \underline{\quad}$

d)  $39 + 52 = \underline{\quad}$       e)  $36 + 19 = \underline{\quad}$       f)  $47 + 29 = \underline{\quad}$

2. Add. What patterns do you see?

a)  $36 + 10 = \underline{\quad}$ ,  $36 + 20 = \underline{\quad}$ ,  $36 + 30 = \underline{\quad}$ ,  $36 + 40 = \underline{\quad}$

b)  $30 + 16 = \underline{\quad}$ ,  $30 + 26 = \underline{\quad}$ ,  $30 + 36 = \underline{\quad}$ ,  $30 + 46 = \underline{\quad}$

## Practice

1. Use mental math to add.

a)  $49 + 23 =$  \_\_\_\_\_      b)  $51 + 37 =$  \_\_\_\_\_      c)  $64 + 19 =$  \_\_\_\_\_

d)  $31 + 49 =$  \_\_\_\_\_      e)  $17 + 39 =$  \_\_\_\_\_      f)  $54 + 23 =$  \_\_\_\_\_

2. Use mental math. Find out how many seashells you would have if you bought one tub each of:

a) sand dollars and cowries \_\_\_\_\_

b) oysters and pukas \_\_\_\_\_

c) pukas and sand dollars \_\_\_\_\_

d) pukas and cowries \_\_\_\_\_

e) oysters and cowries \_\_\_\_\_

f) sand dollars and oysters \_\_\_\_\_



3. Sanjay has 27 seahorses and 26 sea urchins in his salt-water tank.

How many sea creatures is that? \_\_\_\_\_

4. Marta had 41 red buttons and 57 silver buttons.

How many buttons is that? \_\_\_\_\_

## Stretch Your Thinking

Use mental math to add:  $24 + 37 + 26 =$  \_\_\_\_\_

Describe the strategy you used.

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# Adding 3-Digit Numbers



## Quick Review

The bakery shop made 158 blueberry muffins and 213 bran muffins. How many muffins is that?

Here are 2 ways to add 158 and 213.

- Use place value.

Add the ones.

$$\begin{array}{r} 158 \\ + 213 \\ \hline \end{array}$$

Think:  $8 + 3 = 11$

Trade 10 ones for 1 ten.

$$\begin{array}{r} 158 \\ + 213 \\ \hline 1 \end{array}$$

Add the tens. Add the hundreds.

$$\begin{array}{r} 158 \\ + 213 \\ \hline 371 \end{array}$$

- I started with 158.  
I added 200 to get 358.  
I added 10 to get 368.  
Then I added 3 to get 371.

$$\begin{array}{r} 158 \\ + 200 \\ \hline 358 \\ + 10 \\ \hline 368 \\ + 3 \\ \hline 371 \end{array}$$

There are 371 muffins.

## Try These

1. Add.

a)  $\begin{array}{r} 143 \\ + 312 \\ \hline \end{array}$

b)  $\begin{array}{r} 276 \\ + 314 \\ \hline \end{array}$

c)  $\begin{array}{r} 567 \\ + 272 \\ \hline \end{array}$

d)  $\begin{array}{r} 476 \\ + 335 \\ \hline \end{array}$

## Practice

1. Play this game with a partner.

You will need:

1 number cube

Take turns:

- ▶ Roll the number cube.  
Record the digit rolled in one of the boxes in your partner's first addition problem.  
Then, your partner rolls and records the digit in one of your boxes.
- ▶ After 6 turns each, add the numbers in your own problem.  
The player with the greater sum wins.
- ▶ Repeat the game with the other problems.

+				+				+			
_____			_____			_____					

+				+				+			
_____			_____			_____					

## Stretch Your Thinking

The sum of 2 numbers is 427.

What might the numbers be?

Find 3 different answers.

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# Estimating Differences



## Quick Review

Here are different strategies to estimate  $86 - 43$ .

- Write each number to the closest 10.  
 $86$  is closest to  $90$ .  
 $43$  is closest to  $40$ .  
 Subtract:  $90 - 40 = 50$   
 So,  $86 - 43$  is about  $50$ .
  
- Subtract only the digits in the tens place.  
 $86$  has 8 tens.  
 $43$  has 4 tens.  
 Subtract the tens:  $8 \text{ tens} - 4 \text{ tens} = 4 \text{ tens}$ , or  $40$   
 So,  $86 - 43$  is about  $40$ .
  
- Use the number of tens for the number you subtract.  
 $43$  has 4 tens.  
 Subtract 4 tens:  $86 - 40 = 46$   
 So,  $86 - 43$  is about  $46$ .

## Try These

1. Estimate each difference.

a)  $96 - 45$

b)  $77 - 38$

c)  $67 - 26$

d)  $85 - 19$

e)  $91 - 48$

f)  $58 - 32$

2. Show 2 ways to estimate the difference:  $72 - 53$

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## Practice

1. Estimate each difference.

a)

Problem	Estimate
$72 - 31$	
$58 - 19$	
$67 - 38$	
$98 - 43$	
$59 - 18$	

b)

Problem	Estimate
$76 - 41$	
$53 - 32$	
$89 - 41$	
$53 - 16$	
$25 - 9$	

2. The estimated difference of 2 numbers is 25.  
What might the numbers be?  
Give 2 possible answers.

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3. Laslo peeled 87 potatoes. Marla peeled 52 potatoes.  
About how many more potatoes did Laslo peel?

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4. There were 63 people on the city bus.  
Twenty-five people got off the bus.  
About how many people did not get off the bus?

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## Stretch Your Thinking

You have learned 3 ways to estimate differences.  
Make up an example where each way gives different estimates.

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Make up an example where each way gives the same estimate.

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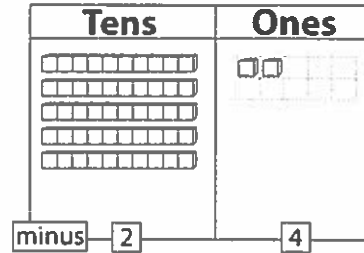
# Subtracting 2-Digit Numbers



## Quick Review

Here are different strategies to subtract  $52 - 24$ .

- Think of using Base Ten Blocks. Start with 52. You cannot take away 4 ones.



Trade 1 ten for 10 ones.

$$\begin{array}{r} 4 \ 12 \\ 52 \\ - 24 \\ \hline \end{array}$$

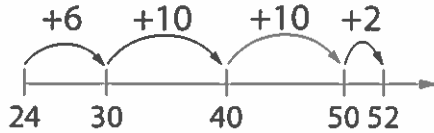
Subtract the ones.

$$\begin{array}{r} 4 \ 12 \\ 52 \\ - 24 \\ \hline 8 \end{array}$$

Subtract the tens.

$$\begin{array}{r} 4 \ 12 \\ 52 \\ - 24 \\ \hline 28 \end{array}$$

- Count up from 24 to 52.



$$6 + 10 + 10 + 2 = 28$$

$$\text{So, } 52 - 24 = 28$$

- Start by subtracting just the tens.

$$52 - 20 = 32$$

$$32 - 4 = 28$$

$$\text{So, } 52 - 24 = 28$$

## Try These

1. Find each difference.

a)  $75 - 4 = \underline{\quad}$

b)  $36 - 10 = \underline{\quad}$

c)  $88 - 15 = \underline{\quad}$

d)  $96 - 53 = \underline{\quad}$

e)  $44 - 7 = \underline{\quad}$

f)  $61 - 38 = \underline{\quad}$

2. Subtract.

a) 
$$\begin{array}{r} 57 \\ - 30 \\ \hline \end{array}$$

b) 
$$\begin{array}{r} 59 \\ - 43 \\ \hline \end{array}$$

c) 
$$\begin{array}{r} 71 \\ - 19 \\ \hline \end{array}$$

d) 
$$\begin{array}{r} 87 \\ - 48 \\ \hline \end{array}$$

e) 
$$\begin{array}{r} 62 \\ - 35 \\ \hline \end{array}$$

## Practice

1. Subtract.

$$\begin{array}{r} \text{a) } 89 \\ - 50 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 48 \\ - 19 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 75 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 97 \\ - 14 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } 63 \\ - 27 \\ \hline \end{array}$$

2. Subtract to find the answer to the riddle.

Match each letter to its answer.

Riddle: What do elves learn in school?

$48 - 27 = \underline{\quad\quad\quad} \text{ (O)}$

$81 - 53 = \underline{\quad\quad\quad} \text{ (L)}$

$76 - 53 = \underline{\quad\quad\quad} \text{ (S)}$

$67 - 43 = \underline{\quad\quad\quad} \text{ (H)}$

$54 - 27 = \underline{\quad\quad\quad} \text{ (E)}$

$97 - 39 = \underline{\quad\quad\quad} \text{ (F)}$

$32 - 17 = \underline{\quad\quad\quad} \text{ (A)}$

$85 - 63 = \underline{\quad\quad\quad} \text{ (R)}$

$46 - 17 = \underline{\quad\quad\quad} \text{ (T)}$

$62 - 18 = \underline{\quad\quad\quad} \text{ (B)}$

29	24	27

28	27	29	29	27	22	23

21	58

29	24	27

27	28	58

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15	44	27	29

## Stretch Your Thinking

The difference between two 2-digit numbers is 46.

What might the numbers be?

Find as many answers as you can.

Write a subtraction equation for each answer.

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# Using Mental Math to Subtract



## Quick Review

You can use mental math to subtract.

Hannah collected 73 acorns.

She gave 36 acorns to Corey.

How many acorns did Hannah have left?

Here are some mental math strategies to find  $73 - 36$ .

➤ Use a “friendly” number.

➤ Count up from 36 to 73.

Think:

40 is close to 36.

$73 - 40 = 33$ .

So,  $73 - 36 = 37$ .

Think:

$36 + 4$  is 40, plus 30 is 70,

plus 3 is 73.

$4 + 30 + 3 = 37$ .

So,  $73 - 36 = 37$ .

Hannah had 37 acorns left.

## Try These

Use mental math.

1. Subtract.

a)  $72 - 29 = \underline{\quad}$       b)  $68 - 39 = \underline{\quad}$       c)  $53 - 31 = \underline{\quad}$

d)  $43 - 27 = \underline{\quad}$       e)  $38 - 19 = \underline{\quad}$       f)  $86 - 27 = \underline{\quad}$

2. Subtract.

a) 
$$\begin{array}{r} 51 \\ - 36 \\ \hline \end{array}$$

b) 
$$\begin{array}{r} 92 \\ - 64 \\ \hline \end{array}$$

c) 
$$\begin{array}{r} 47 \\ - 38 \\ \hline \end{array}$$

d) 
$$\begin{array}{r} 63 \\ - 27 \\ \hline \end{array}$$

## Practice

1. Play this game with a partner.

You will need:

10 counters each  
a calculator

Take turns.

- Cover 2 numbers on the grid with counters.
- Use mental math to subtract.
- Record your answer in the chart.
- Keep playing until all the numbers have been used.
- Use the calculator to find your total score.
- The player with the greater total wins.

82	31	68	55	17	Player 1	Player 2
27	75	99	43	60		
14	57	32	89	77		
65	24	90	45	27	Total:	Total:

## Stretch Your Thinking

Describe 2 ways to use mental math to find  $82 - 47$ .

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# Subtracting 3-Digit Numbers

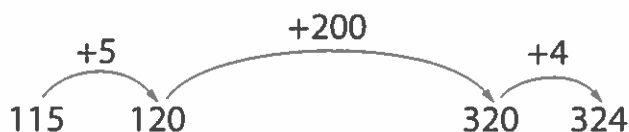


## Quick Review

Mina has 115 pennies. Wayne has 324 pennies.  
How many more pennies does Wayne have?

Here are 2 ways to find  $324 - 115$ .

- ▶ Count up from 115 to 324.



$$5 + 200 + 4 = 209$$

So,  $324 - 115 = 209$

- ▶ Use place value.

You cannot take away 5 ones.

$$\begin{array}{r} 324 \\ - 115 \\ \hline \end{array}$$

Trade 1 ten for 10 ones.

$$\begin{array}{r} 1 \ 14 \\ 324 \\ - 115 \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 1 \ 14 \\ 324 \\ - 115 \\ \hline 209 \end{array}$$

Wayne has 209 more pennies than Mina.

## Try These

1. Subtract.

a) 
$$\begin{array}{r} 476 \\ - 223 \\ \hline \end{array}$$

b) 
$$\begin{array}{r} 571 \\ - 348 \\ \hline \end{array}$$

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

d) 
$$\begin{array}{r} 804 \\ - 521 \\ \hline \end{array}$$

e) 
$$\begin{array}{r} 783 \\ - 428 \\ \hline \end{array}$$

f) 
$$\begin{array}{r} 963 \\ - 367 \\ \hline \end{array}$$

g) 
$$\begin{array}{r} 426 \\ - 325 \\ \hline \end{array}$$

h) 
$$\begin{array}{r} 623 \\ - 508 \\ \hline \end{array}$$

## Practice

1. Subtract.

$$\begin{array}{r} \text{a) } 294 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 763 \\ - 521 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 486 \\ - 247 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 309 \\ - 142 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } 550 \\ - 319 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f) } 800 \\ - 289 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g) } 638 \\ - 259 \\ \hline \end{array}$$

$$\begin{array}{r} \text{h) } 975 \\ - 487 \\ \hline \end{array}$$

2. Use the data in the chart to answer each question.

a) How many more stamps did Cindy collect than Reba? \_\_\_\_\_

b) How many more stamps did Lily collect than Lokahi? \_\_\_\_\_

c) Who collected 86 more stamps than Reba? \_\_\_\_\_

d) Who collected 109 fewer stamps than Lokahi? \_\_\_\_\_

e) What is the difference between the greatest number of stamps collected and the least number? \_\_\_\_\_

Stamps Collected

Name	Number of Stamps
Noah	327
Reba	241
Lily	638
Lokahi	509
Cindy	400

3. Paolo and Nawel go to a campground 762 km from home. They travel 537 km by train. The rest of the trip is by bus.

How far do they travel by bus? \_\_\_\_\_

## Stretch Your Thinking

Find two 3-digit numbers that subtract to leave 241.  
Show your work.

# Solving Addition and Subtraction Problems



## Quick Review

Vinh made 2 paper chains.

The red chain has 216 links. The blue chain has 379 links.

- How many links is that altogether?

Add to solve the problem.

$$216 = 200 + 10 + 6$$

$$379 = 300 + 70 + 9$$

$$200 + 300 = 500$$

$$10 + 70 = 80$$

$$6 + 9 = 15$$

$$500 + 80 + 15 = 595$$

There are 595 links altogether.

- How many more blue links than red links are there?

Subtract to solve the problem.

Count up from 216 to 379.



$$4 + 80 + 70 + 9 = 163$$

$$\text{So, } 379 - 216 = 163$$

There are 163 more blue links than red links.

## Try These

1. Jaques saw 39 cardinals and 18 blue jays in the park.

How many birds did he see altogether?

---

2. Cynthia has 147 cowrie shells and 286 puka shells.

How many more puka shells than cowrie shells does she have?

---



## Practice

1. a) Mr. Tanaka drove 376 km on Thursday and 489 km on Friday.  
How far did he drive over the 2 days?
- 
- b) How much farther did Mr. Tanaka drive on Friday than on Thursday?
- 
2. a) Forty-two Grade 3 children went to the zoo.  
Thirty-eight Grade 2 children went with them.  
How many children went to the zoo?
- 
- b) Fifty-seven Grade 4 children joined the others for lunch at the zoo.  
How many children had lunch together at the zoo?
- 

3. Use the data in the chart.

- a) How many more tags did Grade 2 collect than Grade 1?
- 

Grade	Number of Tags
1	368
2	426
3	219
4	509

- b) How many more tags does Grade 3 have to collect to be even with Grade 4?
- 

4. Sandra baked 128 gingerbread cookies for the bake sale.  
Luca baked 196 gingerbread cookies.  
How many cookies is that altogether?
- 

## Stretch Your Thinking

Use these numbers: 3, 5, 6, 7, 8, 9  
Arrange the numbers to make the greatest possible sum and the least possible difference.

$$\begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} - \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array}$$

# Measuring the Passage of Time



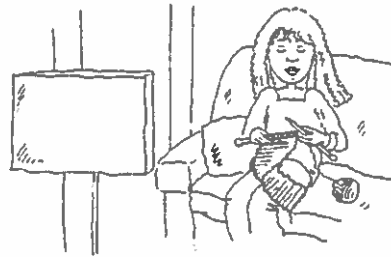
## Quick Review

We use different units to measure how much time an activity takes.

It takes Oliver 1 TV commercial to button up his sweater.



It takes Sara 5 TV shows to knit a scarf for herself.



It takes Jane 20 pendulum swings to brush her teeth.



It takes Marvin 2 recesses to write a poem.



## Try These

Work with a partner. Use your pendulum timer.

1. Measure how long it takes to do each activity.

a) cutting out a snowflake \_\_\_\_\_

b) counting back by 5s from 100 to 5 \_\_\_\_\_

c) doing 10 sit-ups \_\_\_\_\_

2. Find an activity that takes about 40 pendulum swings.

Describe your activity.