

Name \_\_\_\_\_

## Break Apart Ones to Add

Sometimes when you are adding, you can break apart ones to make a ten.

$$37 + 8 = \underline{\quad ? \quad}$$

Look at the two-digit addend, 37. What digit is in the ones place? 7

Decide how many you need to add to the ones digit to make 10.

$$7 + \underline{3} = 10, \text{ and } 37 + \underline{3} = 40$$

Break apart that number from the one-digit addend, 8.

$$8 - 3 = 5$$

Finally, write the new number sentence.  $40 + 5 = \underline{45}$

**Break apart ones to make a ten. Then add and write the sum.**

1.  $28 + 6 = \underline{\quad}$

2.  $34 + 7 = \underline{\quad}$

## Same Sums

Draw a line to connect each addition sentence on the left to an addition sentence with the same sum on the right. Then write the sums to check your work.

$17 + 4 = \underline{\quad\quad} \bullet$

$\bullet 50 + 1 = \underline{\quad\quad}$

$27 + 6 = \underline{\quad\quad} \bullet$

$\bullet 20 + 7 = \underline{\quad\quad}$

$45 + 6 = \underline{\quad\quad} \bullet$

$\bullet 60 + 7 = \underline{\quad\quad}$

$32 + 9 = \underline{\quad\quad} \bullet$

$\bullet 20 + 1 = \underline{\quad\quad}$

$18 + 9 = \underline{\quad\quad} \bullet$

$\bullet 40 + 4 = \underline{\quad\quad}$

$66 + 7 = \underline{\quad\quad} \bullet$

$\bullet 40 + 1 = \underline{\quad\quad}$

$39 + 5 = \underline{\quad\quad} \bullet$

$\bullet 30 + 3 = \underline{\quad\quad}$

$58 + 9 = \underline{\quad\quad} \bullet$

$\bullet 70 + 3 = \underline{\quad\quad}$



**Writing and Reasoning** Write a number sentence with the same sum as  $50 + 6 = 56$ .

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# Use Compensation

This is a way to add 2-digit numbers.

Take ones from one addend to make the other addend a tens number.

$$27 + 38 = \underline{\quad ? \quad}$$

First, find the addend with the greater ones digit. 38

How many ones would you need to add to make it a tens number?

$$38 + \underline{\quad} = 40$$

Add 2 to make 40.

Next, take that many ones away from the other addend.

$$27 - 2 = 25$$

The two new addends are 25 and 40.

Write the new addition sentence to find the sum.

$$\underline{25} + \underline{40} = \underline{65}$$

Show how to make one addend the next tens number.  
Complete the new addition sentence.

1.  $28 + 16 = ?$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

2.  $37 + 24 = ?$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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## Match the Sums

Find each sum. Then draw a line to connect each number sentence on the left to the number sentence on the right that has the same sum.

$19 + 37 = \underline{\quad}$	●	●	$30 + 28 = \underline{\quad}$
$43 + 18 = \underline{\quad}$	●	●	$20 + 36 = \underline{\quad}$
$56 + 27 = \underline{\quad}$	●	●	$60 + 10 = \underline{\quad}$
$32 + 19 = \underline{\quad}$	●	●	$31 + 20 = \underline{\quad}$
$67 + 23 = \underline{\quad}$	●	●	$41 + 20 = \underline{\quad}$
$29 + 29 = \underline{\quad}$	●	●	$40 + 44 = \underline{\quad}$
$39 + 45 = \underline{\quad}$	●	●	$60 + 23 = \underline{\quad}$
$58 + 12 = \underline{\quad}$	●	●	$70 + 20 = \underline{\quad}$



**Writing and Reasoning** Write two pairs of addition sentences that have matching sums.

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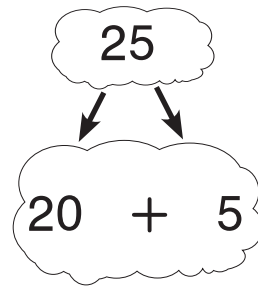
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# Break Apart Addends as Tens and Ones

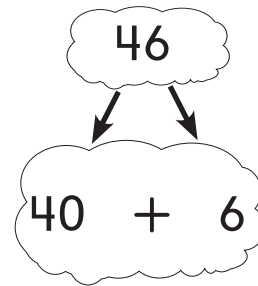
$$25 + 46 = ?$$

Break apart 25 into tens and ones.



+

Break apart 46 into tens and ones.



+

Then, add the tens from the two addends.

$$\underline{20} + \underline{40} = \underline{60}$$

Add the ones from the two addends.

$$\underline{5} + \underline{6} = \underline{11}$$

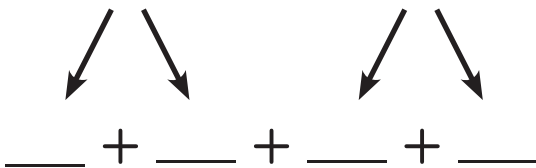
Add the two sums.

$$\underline{60} + \underline{11} = \underline{71}$$

$$\text{So, } 25 + 46 = \underline{71}.$$

**Break apart the addends to find the sum.**

$$1. \quad 12 + 48 = ?$$



Add the tens.  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Add the ones.  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

How many in all?  $\underline{\quad} + \underline{\quad} = \underline{\quad}$

So,  $12 + 48 = \underline{\quad}$ .

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# Tens and Ones Combinations

Use the tens and ones numbers in the box to complete each problem. Numbers may be used more than once. Then write the sums for the tens and for the ones.

50	4	30	9	20
40	7	60	8	
10	5	2	3	70

1.  $\begin{array}{r} 30 \\ + \quad \quad \\ \hline \end{array}$

$\quad + \quad = 92$

2.  $\begin{array}{r} \quad + \quad \\ + \quad + \quad \\ \hline \end{array}$

$\quad + \quad = 71$

3.  $\begin{array}{r} \quad + \quad \\ + \quad + \quad \\ \hline \end{array}$

$\quad + \quad = 93$

4.  $\begin{array}{r} \quad + \quad \\ + \quad + \quad \\ \hline \end{array}$

$\quad + \quad = 100$



**Writing and Reasoning** Explain how you decided which tens and ones numbers to use for Exercise 4.

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Name \_\_\_\_\_

# Model Regrouping for Addition

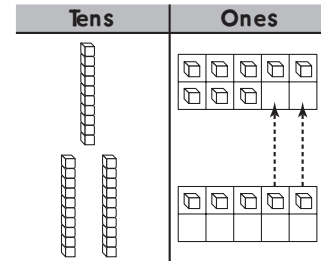
Add 18 and 25.

Show 18 and 25 with .

Count the ones.

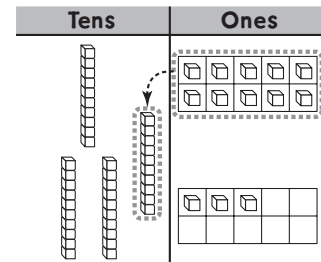
How many ones are there in all? 13 ones

Can you make a ten? yes



Trade 10 ones  
for 1 ten.

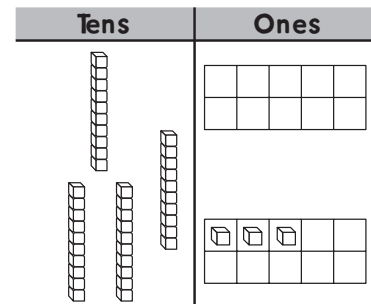
This is called  
regrouping.



Count the tens. How many  
tens are there in all? 4 tens

Count the ones. How many  
ones are there in all? 3 ones

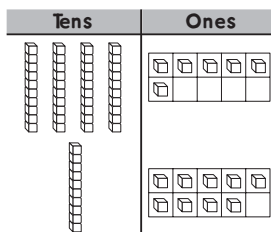
4 tens 3 ones is the same as 43.



Write how many tens and ones in the sum.

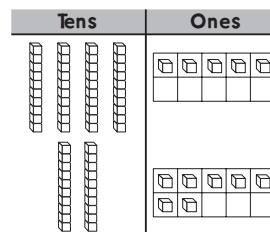
Write the sum.

1. Add 46 and 19.



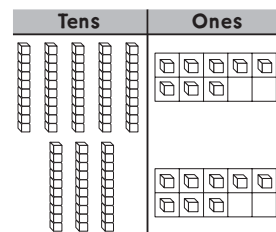
\_\_\_\_\_ tens \_\_\_\_\_ ones

2. Add 45 and 27.



\_\_\_\_\_ tens \_\_\_\_\_ ones

3. Add 58 and 38.



\_\_\_\_\_ tens \_\_\_\_\_ ones

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# Go Fish

Write the total number of tens and ones  
for each fish. Write the sum on the tail.

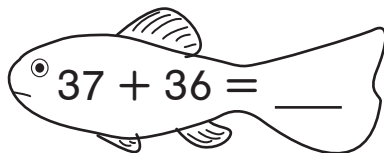
Use the code to color the fish.

52 → orange

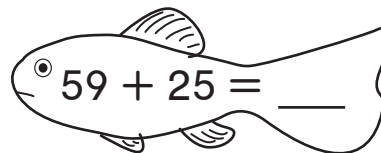
61 → red

73 → green

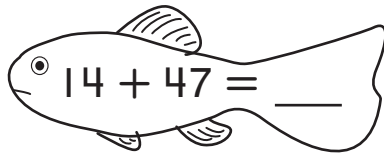
84 → blue



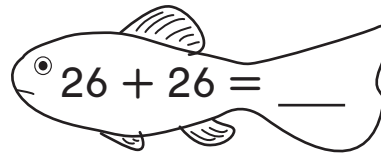
\_\_\_ tens \_\_\_ ones



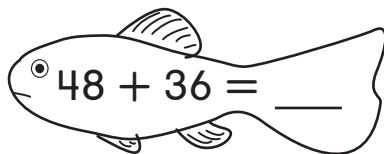
\_\_\_ tens \_\_\_ ones



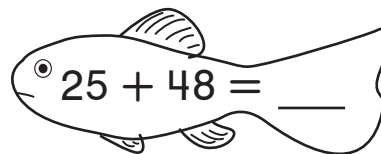
\_\_\_ tens \_\_\_ ones



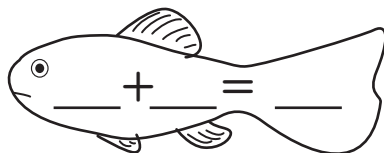
\_\_\_ tens \_\_\_ ones



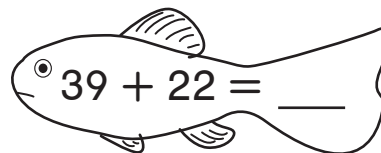
\_\_\_ tens \_\_\_ ones



\_\_\_ tens \_\_\_ ones



\_\_\_ tens \_\_\_ ones



\_\_\_ tens \_\_\_ ones



**Writing and Reasoning** Write a number sentence for the blank fish so that there are two fish for each color listed.



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# Model and Record 2-Digit Addition

Model  $33 + 19$ .

How many ones  
are there in all? 12 ones

Can you make a ten? yes

Tens	Ones
	o o o o o o o o

Tens	Ones
<div>□</div> 3 1	 3 9
+	

Regroup 10 ones as 1 ten.

Write a 1 in the tens column  
to show the regrouped ten.

How many ones are left  
after regrouping? 2 ones

Write that number in the ones place.

Tens	Ones
	o o o o o o o o o o

Tens	Ones
<div>□</div> 3 1	 3 9
+	
	2

How many tens  
are there in all? 5 tens

Write that number  
in the tens place.

Tens	Ones
	o o

Tens	Ones
<div>□</div> 3 1	 3 9
+	
5	2

Draw quick pictures to help you solve. Write the sum.

1.

Tens	Ones
<div>□</div> 4 2	 7 5
+	

Tens	Ones

2.

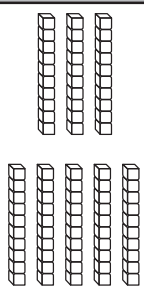

Tens	Ones
<div>□</div> 3 4	 6 6
+	

Tens	Ones

# What Is The Problem?

The models below can be used to show problems.  
Write a word problem for each model and solve it.  
The first problem is started for you.

1.

Tens	Ones
	

*Jimmy collected 35 apples.*

---



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---



---

2.

Tens	Ones
	

---



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## Writing and Reasoning

Draw quick pictures of a model for another problem and solve.

Name \_\_\_\_\_

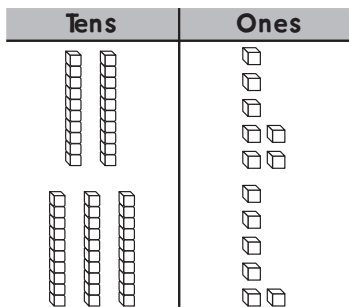
# 2-Digit Addition

Add 27 and 36.

## STEP 1

Show 27 and 36.  
Add the ones.

$$7 + 6 = 13$$

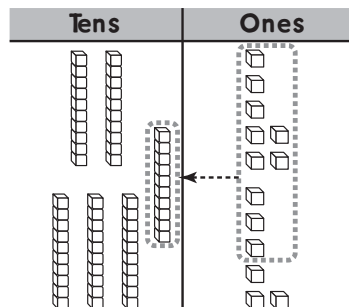


	Tens	Ones
	2	7
+	3	6

## STEP 2

If you can make a 10,  
regroup 10 ones for  
1 ten.

13 ones = 1 ten 3 ones

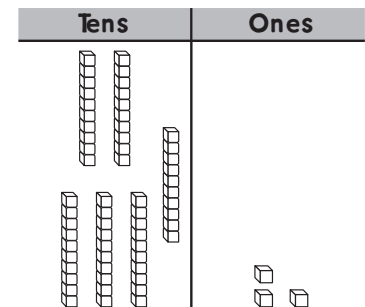


	Tens	Ones
	2	7
+	3	6
		3

## STEP 3

Add the tens.  
Remember to add the  
regrouped ten.

$$1 + 2 + 3 = 6$$



	Tens	Ones
	1	
	2	7
+	3	6
	6	3

Regroup if you need to. Write the sum.

1.

	Tens	Ones
	5	4
+	2	9

2.

	Tens	Ones
	1	7
+	6	1

3.

	Tens	Ones
	4	1
+	2	9

4.

	Tens	Ones
	3	5
+	3	2

Name \_\_\_\_\_

# Adding Errors

Find the errors in the addition problems.  
Circle the errors. Then show how to solve  
the problems correctly.

1.

Tens	Ones
<div style="border: 1px dashed gray; width: 30px; height: 30px; margin: 0 auto;"></div>	
1	2
+	4
	9
<hr/>	
<div style="border: 1px dashed gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">5</div>	<div style="border: 1px dashed gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">1</div>

Tens	Ones
<div style="border: 1px dashed gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">1</div>	
1	2
+	4
	9
<hr/>	
<div style="border: 1px dashed gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">6</div>	<div style="border: 1px dashed gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">1</div>

2.

Tens	Ones
<div style="border: 1px solid gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">1</div>	
3	7
+	4
	5
<hr/>	
8	3

Tens	Ones
<div style="border: 1px solid gray; width: 30px; height: 30px; margin: 0 auto;"></div>	
3	7
+	4
	5
<hr/>	

---

3.

Tens	Ones
<div style="border: 1px solid gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">2</div>	
2	6
+	2
	6
<hr/>	
4	2

Tens	Ones
<div style="border: 1px solid gray; width: 30px; height: 30px; margin: 0 auto;"></div>	
2	6
+	2
	6
<hr/>	

4.

Tens	Ones
<div style="border: 1px solid gray; width: 30px; height: 30px; margin: 0 auto; text-align: center;">1</div>	
7	2
+	1
	9
<hr/>	
8	1

Tens	Ones
<div style="border: 1px solid gray; width: 30px; height: 30px; margin: 0 auto;"></div>	
7	2
+	1
	9
<hr/>	



**Writing and Reasoning** Describe the error you found in Exercise 4.

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Name \_\_\_\_\_

## Practice 2-Digit Addition

Eliza sold 47 pencils in one week.  
She sold 65 pencils the next week.  
How many pencils did she sell in both weeks?

Add 47 and 65.

Add the ones.

$$7 + 5 = 12$$

4	7
+	6
<hr/>	

Regroup.

12 ones = 1 ten and 2 ones

1	
4	7
+	6
<hr/>	
	2

Add the tens.

$$1 + 4 + 6 = 11$$

1	
4	7
+	6
<hr/>	
11	2

Write the sum.

1. 

--

4	3
+	6
<hr/>	

2. 

--

7	6
+	5
<hr/>	

3. 

--

3	8
+	4
<hr/>	

4. 

--

8	5
+	6
<hr/>	

5. 

--

8	2
+	4
<hr/>	

6. 

--

8	1
+	1
<hr/>	

7. 

--

2	7
+	8
<hr/>	

8. 

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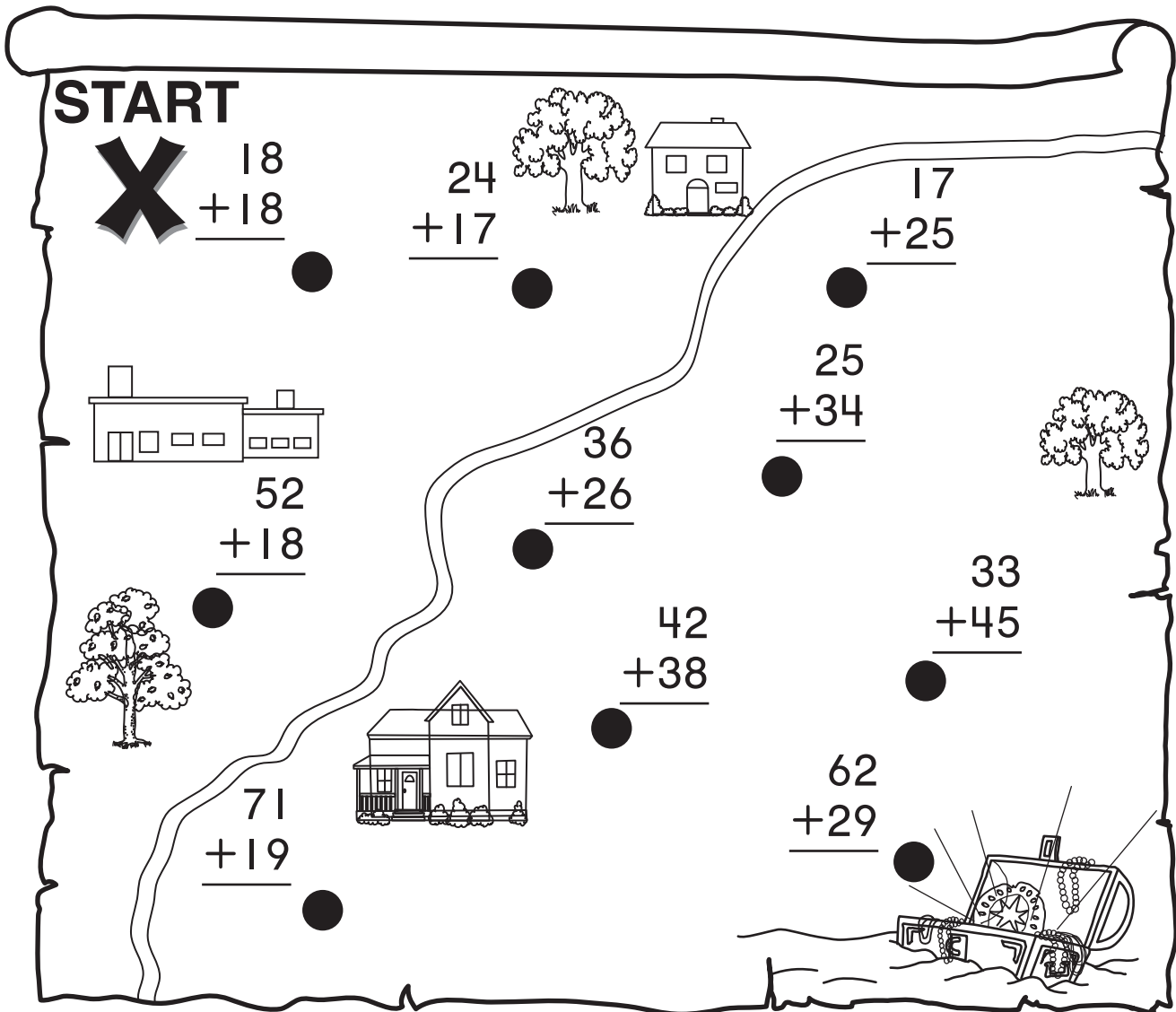
5	1
+	3
<hr/>	

Name \_\_\_\_\_

# Draw the Path

Make a path for the treasure map.

Find each sum. Draw the path by following the sums from least to greatest.



**Writing and Reasoning** What are two 2-digit numbers that have a sum of 83?

Name \_\_\_\_\_

# Rewrite 2-Digit Addition

Add.  $43 + 19 = ?$

## STEP 1

What is the tens digit in 43? 4

Write 4 in the tens column.  
Write the ones digit, 3, in the ones column.

Tens	Ones
<div><div></div>4</div>	3
+	

## STEP 2

What is the tens digit in 19? 1

Write 1 in the tens column.  
Write the ones digit, 9, in the ones column.

Tens	Ones
<div><div></div>4</div> <div><div></div>1</div>	3
+	9

## STEP 3

Add the ones.  
Regroup if you need to.

Add the tens.

Tens	Ones
<div><div></div>4</div> <div><div></div>1</div>	3
+	9
6	2

Rewrite the numbers. Then add.

1.  $26 + 9$

<div><div></div></div>	
+	

2.  $16 + 43$

<div><div></div></div>	
+	

3.  $32 + 38$

<div><div></div></div>	
+	

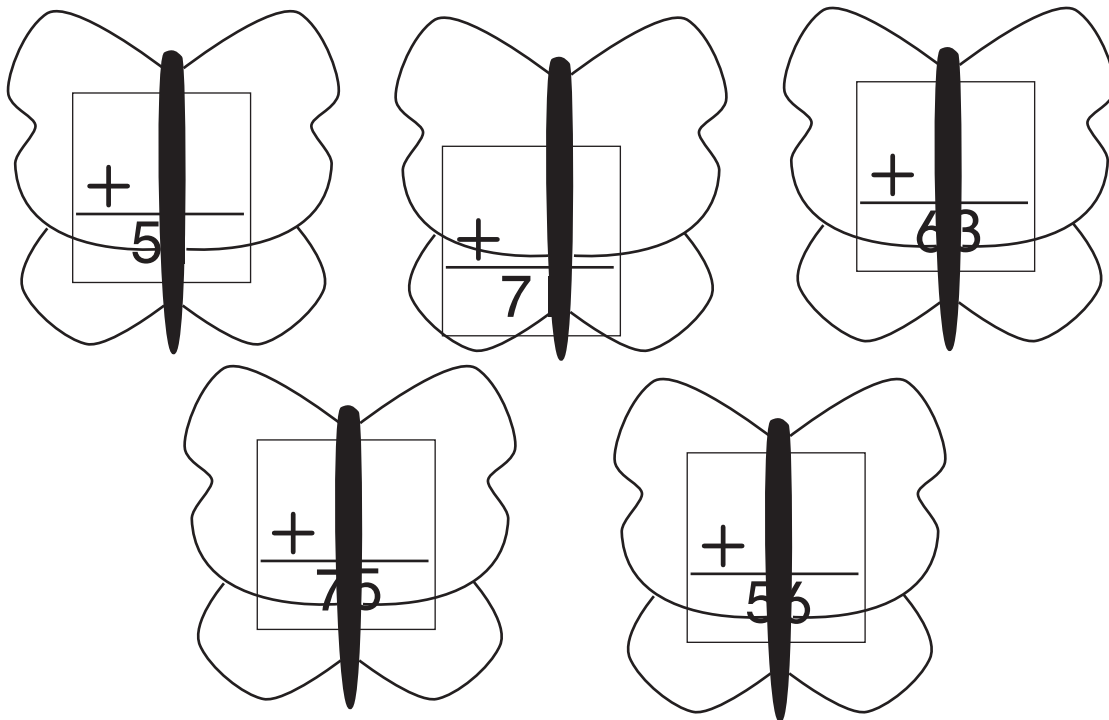
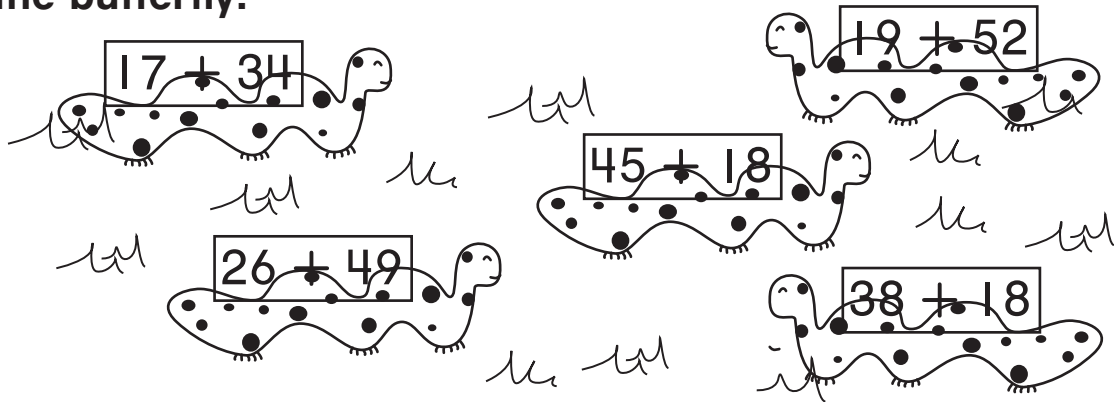
4.  $23 + 26$

<div><div></div></div>	
+	

Name \_\_\_\_\_

# Caterpillars to Butterflies

Match each problem on a caterpillar to the correct sum on a butterfly. You may rewrite the problem on the butterfly.



**Writing and Reasoning** Choose one of the sums. Write a number sentence that does not involve regrouping, using this sum and two 2-digit addends.

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Name \_\_\_\_\_

## Problem Solving • Addition

Hannah has 14 pencils. Juan has 13 pencils.

How many pencils do they have in all?

### Unlock the Problem

What do I need to find?

how many pencils

they have in all

What information do I need to use?

Hannah has 14 pencils.

Juan has 13 pencils.

Show how to solve the problem.

Hannah's 14 pencils	Juan's 13 pencils
------------------------	----------------------

    ? pencils in all

14 + 13 = ■

27 pencils

### Solve.

1. There are 21 peanuts in a bag. 16 more peanuts are put into the bag. How many peanuts are in the bag in all?

21 peanuts	16 peanuts
------------	------------

         peanuts in all

         peanuts

Name \_\_\_\_\_

# Balloon Addition

Solve.



1. There are 25 red balloons and 27 blue balloons. How many balloons are there in all?

\_\_\_\_\_ balloons

2. There are 43 big balloons and 27 small balloons. How many balloons are there in all?

\_\_\_\_\_ balloons

3. Angel saw 17 balloons. Lisa saw 29 balloons. How many balloons did they see in all?

\_\_\_\_\_ balloons

4. Andre and his dad flew 68 balloons altogether. Andre flew 37 balloons. How many balloons did Andre's dad fly in all?

\_\_\_\_\_ balloons



**Writing and Reasoning** Explain how you solved Exercise 4.

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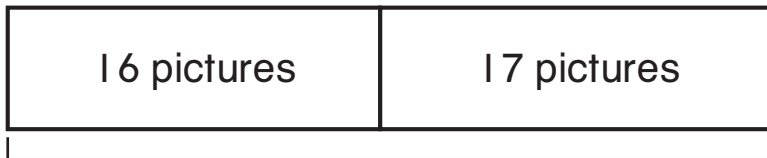
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## Algebra • Write Equations to Represent Addition

Sara took 16 pictures.  
Then she took 17 more pictures.  
How many pictures did Sara take in all?

Use a bar model to show the problem.



\_\_\_\_\_ ? \_\_\_\_\_ pictures in all

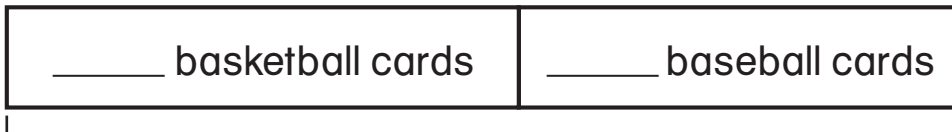
Write a number sentence. Solve.

$$\underline{16 + 17 = \blacksquare}$$

33 pictures

**Use a bar model to show the problem. Write a number sentence. Use a  $\blacksquare$  for the missing number. Then solve.**

1. Josh has 18 basketball cards  
and 14 baseball cards. How many  
cards does he have altogether?



\_\_\_\_\_ cards altogether

\_\_\_\_\_

\_\_\_\_\_ cards

Name \_\_\_\_\_

# Scoring Sums

The school basketball team played two games this week.

Use the charts to answer the questions. Write number sentences and solve.

Game 1	
Player	Points scored
Ray	18
Sean	12
Troy	9
Alec	15

Game 2	
Player	Points scored
Ray	25
Sean	13
Troy	21
Alec	20

1. How many points did Troy score in Game 1 and Game 2 altogether?

\_\_\_\_\_ points

2. How many points in all did Ray and Alec score in Game 1?

\_\_\_\_\_ points

3. How many points in all did Ray and Sean score in Game 2?

\_\_\_\_\_ points



**Writing and Reasoning** Explain how you found the information needed to solve Exercise 3.

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Name \_\_\_\_\_

# Algebra • Find Sums for 3 Addends

You can add three numbers in different ways.  
Start by adding the ones first.

$$\begin{array}{r} 14 \\ 22 \\ + 36 \\ \hline 72 \end{array}$$

Look at the column of ones digits. Choose two of the digits to add first. Then add the other digit.

$$\begin{array}{r} 4 + 6 = 10 \\ 10 + 2 = 12 \end{array}$$

Then add the tens.

$$1 + 1 + 2 + 3 = 7$$

$$\begin{array}{r} 14 \\ 22 \\ + 36 \\ \hline 72 \end{array}$$

Start at the top of the ones column. Add the first two digits, and then add the third digit.

$$\begin{array}{r} 4 + 2 = 6 \\ 6 + 6 = 12 \end{array}$$

Then add the tens.

$$1 + 1 + 2 + 3 = 7$$

**Add.**

1.

$$\begin{array}{r} 18 \\ 25 \\ + 32 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 40 \\ 37 \\ + 16 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 13 \\ 21 \\ + 34 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 26 \\ 22 \\ + 23 \\ \hline \end{array}$$

# Choose Three

Choose three numbers  
for each exercise.

Write them in the  
shapes. Write the sum.

22	31	17	43	24
45	31	20	38	16

1.

$$\begin{array}{c}
 \square \\
 \bigcirc \\
 + \quad \hexagon \\
 \hline
 \end{array}$$

2.

$$\begin{array}{c}
 \square \\
 \bigcirc \\
 + \quad \hexagon \\
 \hline
 \end{array}$$

3.

$$\begin{array}{c}
 \square \\
 \bigcirc \\
 + \quad \hexagon \\
 \hline
 \end{array}$$

4.

$$\begin{array}{c}
 \square \\
 \bigcirc \\
 + \quad \hexagon \\
 \hline
 \end{array}$$

5.

$$\begin{array}{c}
 \square \\
 \bigcirc \\
 + \quad \hexagon \\
 \hline
 \end{array}$$

6.

$$\begin{array}{c}
 \square \\
 \bigcirc \\
 + \quad \hexagon \\
 \hline
 \end{array}$$

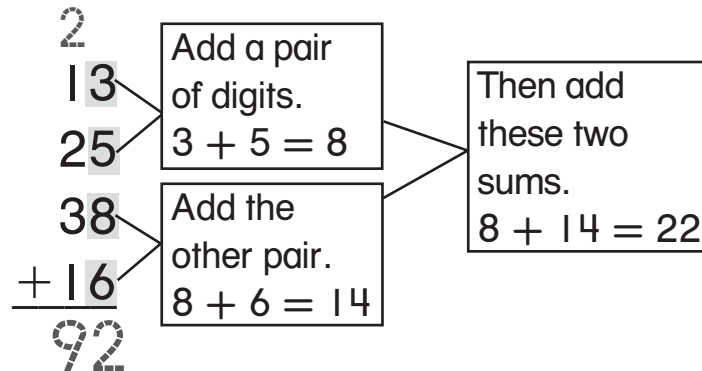


**Writing and Reasoning** Write an addition sentence with three 2-digit addends that does not have regrouping.

Name \_\_\_\_\_

# Algebra • Find Sums for 4 Addends

You can add 4 numbers in different ways.  
One way is to add pairs of digits in the ones column.



Then add the digits in the tens column.

**Add.**

1.

$$\begin{array}{r} 43 \\ 57 \\ 32 \\ + 2 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 24 \\ 21 \\ 19 \\ + 32 \\ \hline \end{array}$$

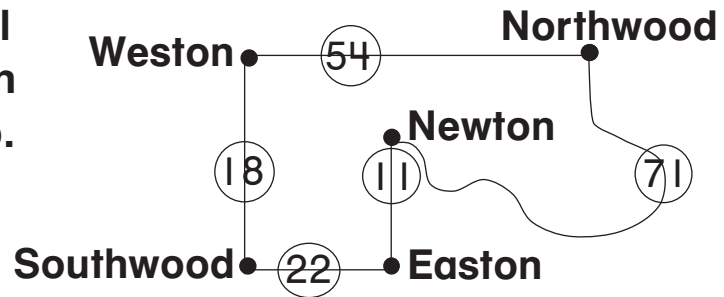
3.

$$\begin{array}{r} 21 \\ 14 \\ 20 \\ + 42 \\ \hline \end{array}$$

Name \_\_\_\_\_

# Trips Around the Towns

The numbers on the map tell how many miles are between towns. Read about each trip. Find how many miles each person drove in all.



1. Mr. James drove from Southwood to Easton to Newton to Northwood to Weston.

+	
<hr/>	
<hr/>	
	_____ miles

2. Mr. Bank drove from Easton to Southwood to Weston to Northwood to Newton.

+	
<hr/>	
<hr/>	
	_____ miles



**Writing and Reasoning** In what order did you add the ones digits in Exercise 2? Explain your thinking.

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