

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

Name _____

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

Name _____

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. $37 + 24 = ?$

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

Name _____

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.

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



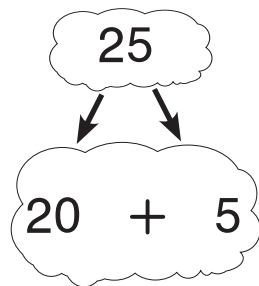
Writing and Reasoning Write two pairs of addition sentences that have matching sums.

Name _____

Break Apart Addends as Tens and Ones

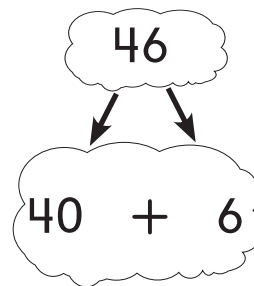
$$25 + 46 = ?$$

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

Name _____

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.
$$\begin{array}{r} \underline{30} + \underline{\quad} \\ + \underline{\quad} + \underline{\quad} \\ \hline \underline{\quad} + \underline{\quad} = 92 \end{array}$$

2.
$$\begin{array}{r} \underline{\quad} + \underline{\quad} \\ + \underline{\quad} + \underline{\quad} \\ \hline \underline{\quad} + \underline{\quad} = 71 \end{array}$$

3.
$$\begin{array}{r} \underline{\quad} + \underline{\quad} \\ + \underline{\quad} + \underline{\quad} \\ \hline \underline{\quad} + \underline{\quad} = 93 \end{array}$$

4.
$$\begin{array}{r} \underline{\quad} + \underline{\quad} \\ + \underline{\quad} + \underline{\quad} \\ \hline \underline{\quad} + \underline{\quad} = 100 \end{array}$$



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

Name _____

Model Regrouping for Addition

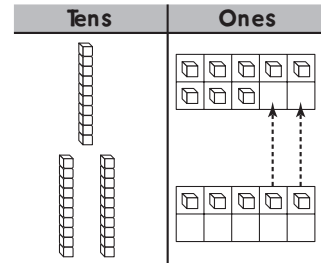
Add 18 and 25.

Show 18 and 25 with

Count the ones.

How many ones are there in all? 13 ones

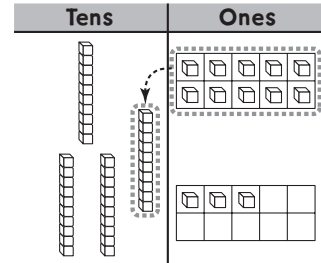
Can you make a ten? yes



Trade 10 ones

for 1 ten.

This is called
regrouping.



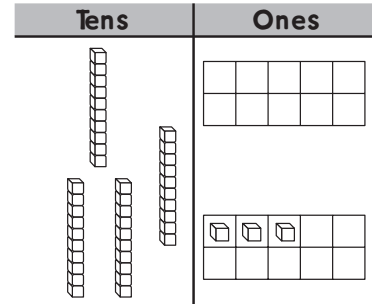
Count the tens. How many
tens are there in all?

4 tens

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

3 ones

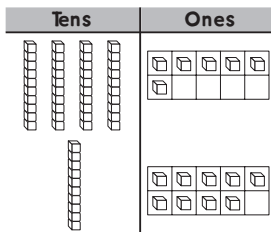
4 tens 3 ones is the same as 43.



Write how many tens and ones in the sum.

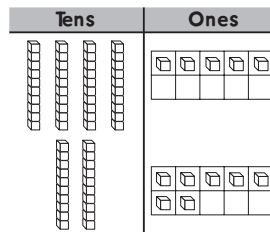
Write the sum.

1. Add 46 and 19.



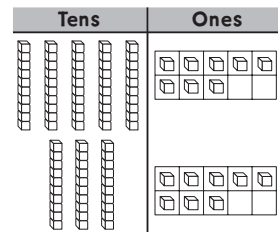
_____ tens _____ ones

2. Add 45 and 27.



_____ tens _____ ones

3. Add 58 and 38.



_____ tens _____ ones

Name _____

Go Fish

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

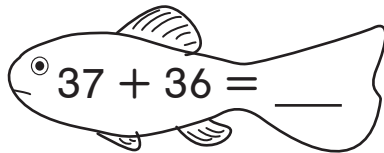
Use the code to color the fish.

52 → orange

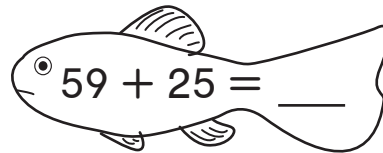
61 → red

73 → green

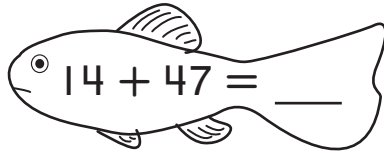
84 → blue



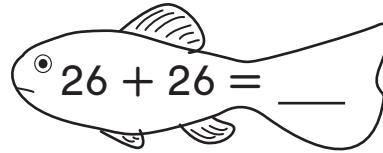
___ tens ___ ones



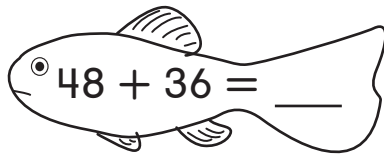
___ tens ___ ones



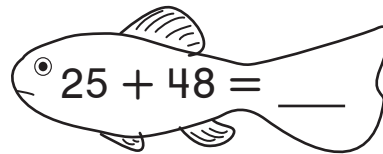
___ tens ___ ones



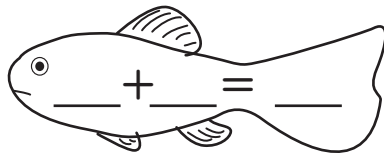
___ tens ___ ones



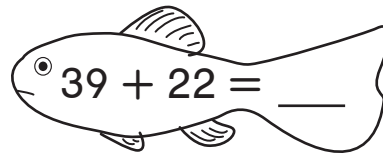
___ tens ___ ones



___ 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.

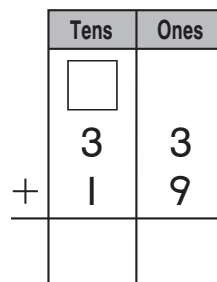
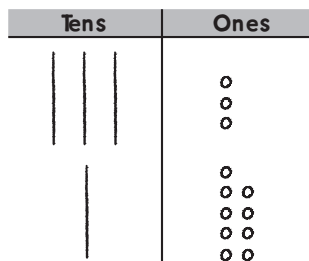
Name _____

Model and Record 2-Digit Addition

Model $33 + 19$.

How many ones are there in all? 12 ones

Can you make a ten? yes

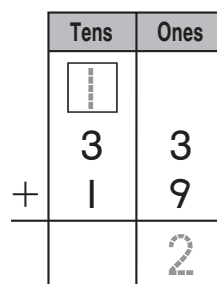
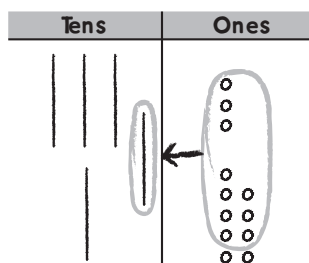


Regroup 10 ones as 1 ten.

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

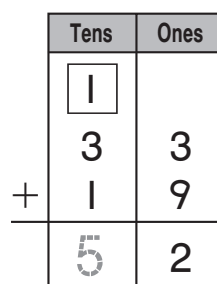
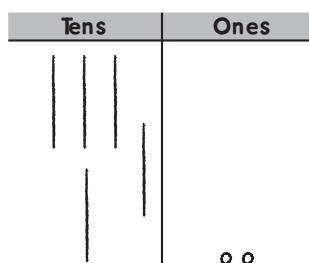
How many ones are left after regrouping? 2 ones

Write that number in the ones place.

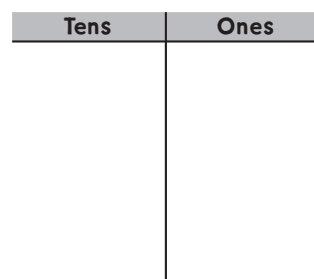
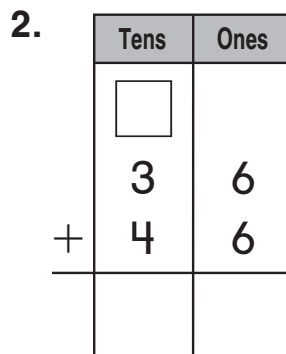
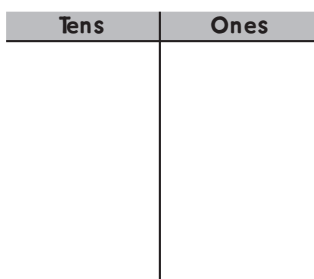
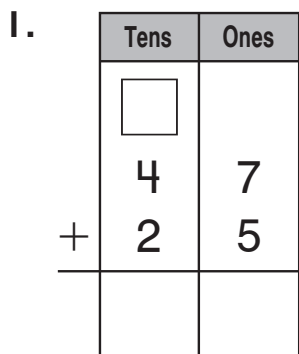


How many tens are there in all? 5 tens

Write that number in the tens place.



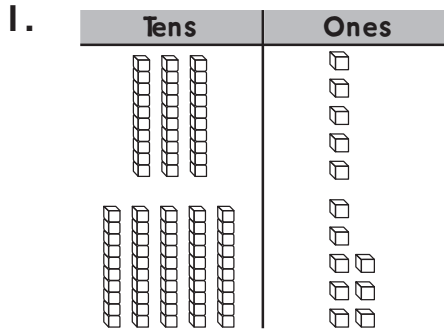
Draw quick pictures to help you solve. Write the sum.



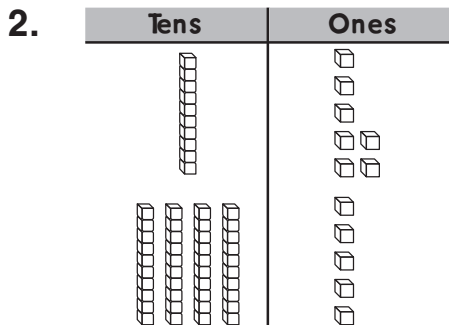
Name _____

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.



Jimmy collected 35 apples.





Writing and Reasoning

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

Name _____

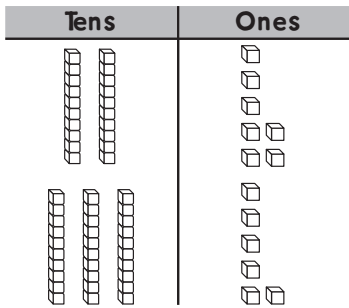
2-Digit Addition

Add 27 and 36.

STEP 1

Show 27 and 36.
Add the ones.

$$7 + 6 = 13$$

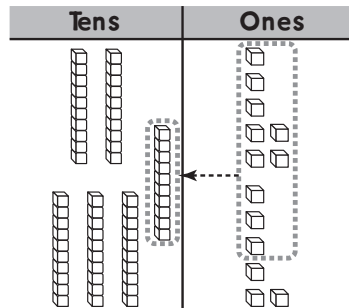


Tens	Ones
<input type="text"/>	
2	7
+	6
<hr/>	

STEP 2

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

$$13 \text{ ones} = 1 \text{ ten } 3 \text{ ones}$$

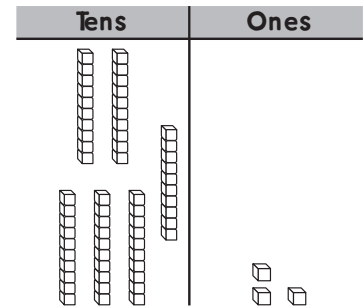


Tens	Ones
<input type="text"/>	
2	7
+	6
<hr/>	
	3

STEP 3

Add the tens.
Remember to add the
regrouped ten.

$$1 + 2 + 3 = 6$$



Tens	Ones
1	
2	7
+	6
<hr/>	
6	3

Regroup if you need to. Write the sum.

1.

Tens	Ones
<input type="text"/>	
5	4
+	9
<hr/>	

2.

Tens	Ones
<input type="text"/>	
1	7
+	1
<hr/>	

3.

Tens	Ones
<input type="text"/>	
4	1
+	9
<hr/>	

4.

Tens	Ones
<input type="text"/>	
3	5
+	2
<hr/>	

Name _____

Adding Errors

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

1.

Tens	Ones
□	
1	2
+	4
	9
5	
	1

Tens	Ones
□	
1	2
+	4
	9
6	
	1

2.

Tens	Ones
□	
3	7
+	4
	5
8	
	3

Tens	Ones
□	
3	7
+	4
	5
3	

3.

Tens	Ones
□	
2	6
+	2
	6
4	
	2

Tens	Ones
□	
2	6
+	2
	6
2	

4.

Tens	Ones
□	
7	2
+	1
	9
8	
	1

Tens	Ones
□	
7	2
+	1
	9
1	



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

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.

$$7 + 5 = 12$$

<input style="width: 30px; height: 25px;" type="text"/>	
4	7
+	6
	5

Regroup.

12 ones = 1 ten and 2 ones

<input style="width: 30px; height: 25px;" type="text"/>	
4	7
+	6
	5

	2

Add the tens.

$$1 + 4 + 6 = 11$$

<input style="width: 30px; height: 25px;" type="text"/>	
4	7
+	6
	5

11	2

Write the sum.

1.

	4	3
+	6	9

2.

	7	6
+	5	8

3.

	3	8
+	4	2

4.

	8	5
+	6	8

5.

	8	2
+	4	7

6.

	8	1
+	1	7

7.

	2	7
+	8	6

8.

	5	1
+	3	8

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.

START

$18 + 18$

$24 + 17$

$17 + 25$

$25 + 34$

$36 + 26$

$52 + 18$

$42 + 38$

$33 + 45$

$71 + 19$

$62 + 29$



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
	<input type="text"/>	
	4	3
+		
<hr/>		

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
	<input type="text"/>	
	4	3
	1	9
+		
<hr/>		

STEP 3

Add the ones.
Regroup if you need to.

Add the tens.

	Tens	Ones
	<input type="text"/>	
	4	3
	1	9
+		
<hr/>		
	6	2

Rewrite the numbers. Then add.

1. $26 + 9$

	Tens	Ones
	<input type="text"/>	
+		
<hr/>		

2. $16 + 43$

	Tens	Ones
	<input type="text"/>	
+		
<hr/>		

3. $32 + 38$

	Tens	Ones
	<input type="text"/>	
+		
<hr/>		

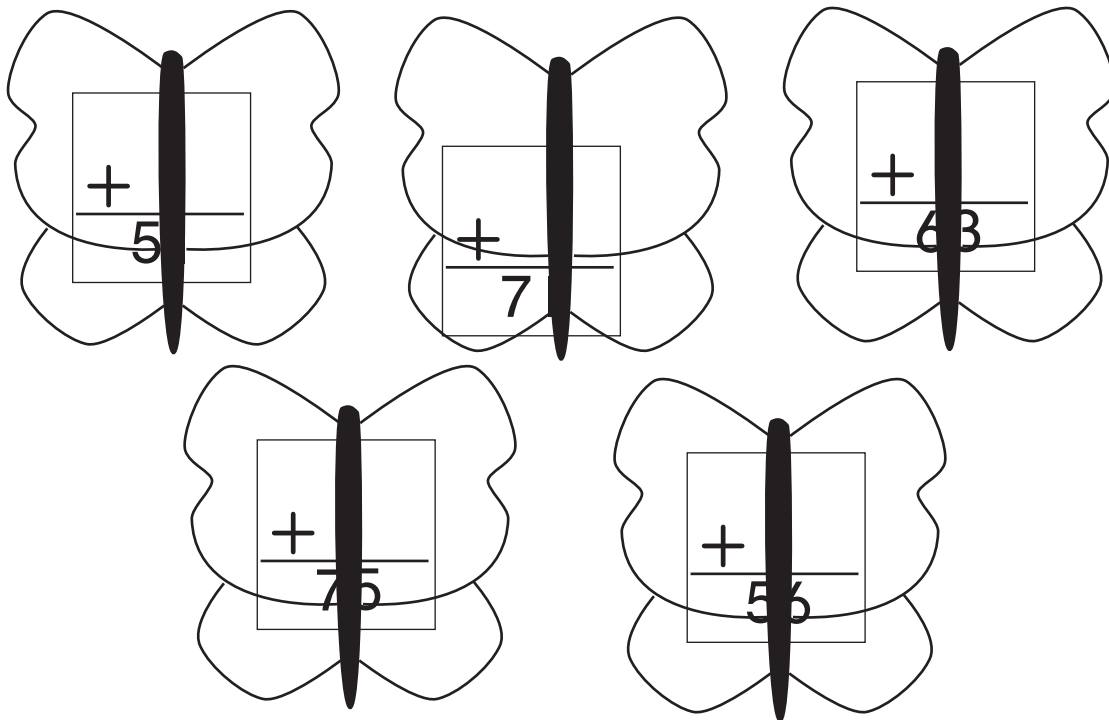
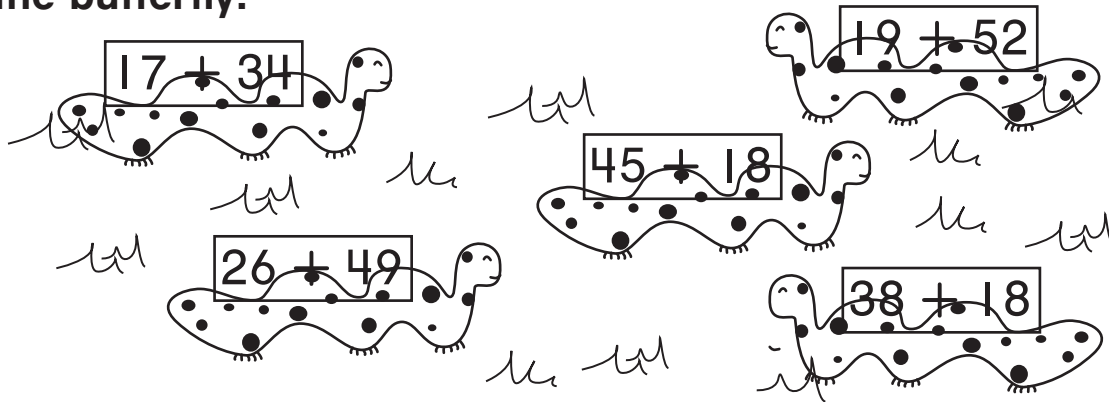
4. $23 + 26$

	Tens	Ones
	<input type="text"/>	
+		
<hr/>		

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.

Name _____

Problem Solving • Addition

Hannah has 14 pencils. Juan has 13 pencils.
How many pencils do they have in all?

Unlock the Problem

<p>What do I need to find? <u>how many pencils</u> they have in all</p>	<p>What information do I need to use? Hannah has <u>14</u> pencils. Juan has <u>13</u> pencils.</p>		
<p>Show how to solve the problem.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px; text-align: center;">Hannah's 14 pencils</td> <td style="padding: 5px; text-align: center;">Juan's 13 pencils</td> </tr> </table> <p style="text-align: center; margin-top: 10px;">_____ ? _____ pencils in all</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div style="text-align: center;"> <u>14 + 13 = ■</u> </div> <div style="text-align: center;"> <u>27</u> pencils </div> </div>		Hannah's 14 pencils	Juan's 13 pencils
Hannah's 14 pencils	Juan's 13 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



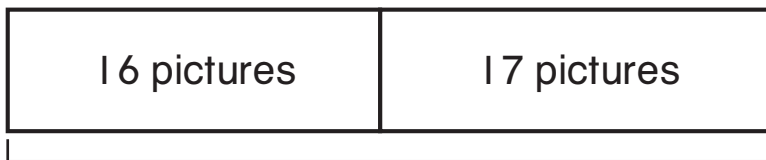
Writing and Reasoning Explain how you solved Exercise 4.

Name _____

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.

16 + 17 = █

33 pictures

Use a bar model to show the problem. Write a number sentence. Use a █ 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.

Name _____

Algebra • Find Sums for 3 Addends

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

$$\begin{array}{r} | \\ 1 \blacksquare \\ 22 \\ + 3 \blacksquare \\ \hline 72 \end{array}$$

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

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

Then add the tens.

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

$$\begin{array}{r} | \\ 1 \blacksquare \\ 2 \blacksquare \\ + 36 \\ \hline 72 \end{array}$$

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

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

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.

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

Name _____

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.

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

2.

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

3.

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

4.

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

5.

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

6.

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

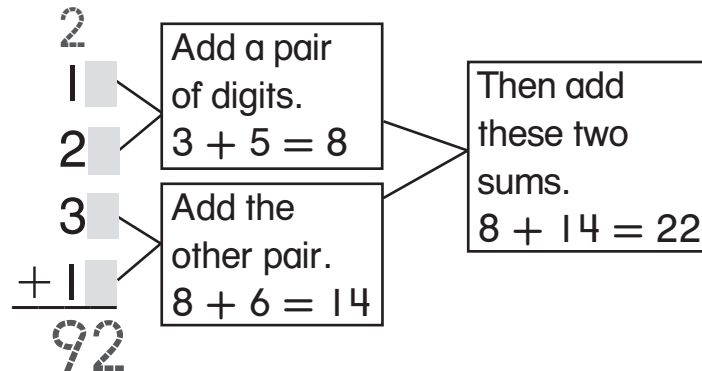


Writing and Reasoning Write an addition sentence with three 2-digit addends that does not have regrouping.

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.

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

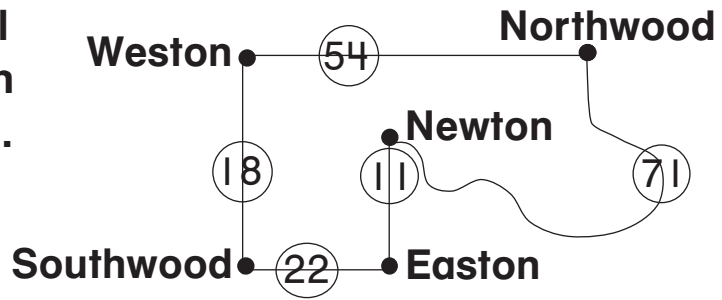
3.

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

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.

+	
_____ miles	

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

+	
_____ miles	



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