4

Fluently Add within 100

- Do you like to swim?

- It takes you 34 seconds to swim from one end of a pool to the other. It takes you 38 seconds to swim back. How many seconds do you swim in all?

Chapter Learning Target:
Understand addition.

Chapter Success Criteria:
- ■ I can identify addition patterns.
- ■ I can explain which strategy I used to write a sum.
- ■ I can write a sum.
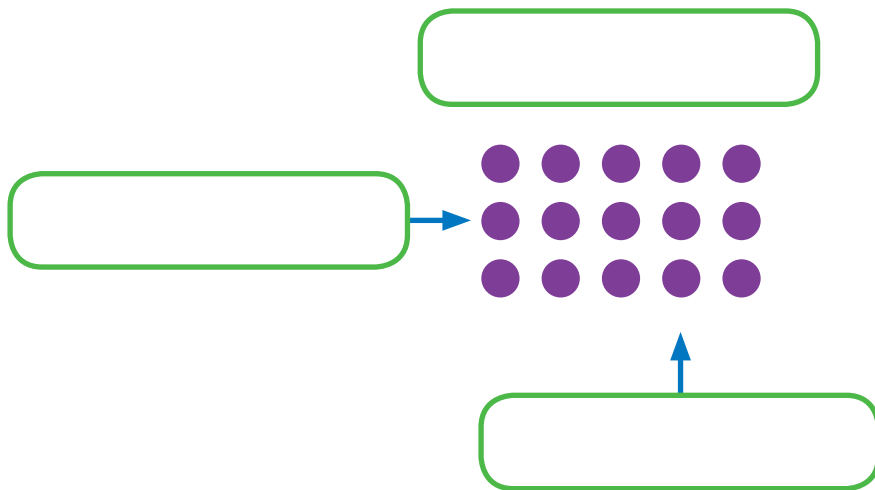- ■ I can solve addition problems.

4 Vocabulary

Organize It

Use the review words to complete the graphic organizer.

Define It

Use your vocabulary cards to match.
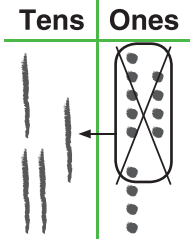
1. partial sums

	Tens	Ones
	1	9
+	2	4
10 + 20 =	3	0
9 + 4 =	1	3
	4	3

2. regroup

Tens	Ones

	Tens	Ones
	☐	
	1	9
+	2	4
	4	3

partial sums

regroup

Tens | Ones

Tens	Ones
1	
1	9
2	4
4	3

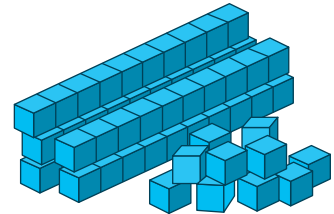|	Tens	Ones
	1	9
+	2	4
10 + 20 =	3	0
9 + 4 =	1	3
Sum	4	3

Partial Sums

Learning Target: Use partial sums to add.

Explore and Grow

Model the problem. Make a quick sketch to show how you solved.

$$32 + 27 = \underline{\hspace{1cm}}$$

Add the tens; add the ones. Then add the partial sums to find the whole sum: $80 + 7 = 87$.

$$51 + 36 = ?$$

	Tens	Ones
	5	1
+	3	6
$50 + 30 =$	8	0
$1 + 6 =$		7
Sum	8	7

> partial sums

Show and Grow   I can do it!

1.
$$73 + 12 = ?$$

	Tens	Ones
	7	3
+	1	2
___ + ___ =		
___ + ___ =		
Sum		

2.
$$32 + 24 = ?$$

	Tens	Ones
	3	2
+	2	4
___ + ___ =		
___ + ___ =		
Sum		

3.
$$37 + 42 = ?$$

	Tens	Ones
	3	7
+	4	2
___ + ___ =		
___ + ___ =		
Sum		

4.
$$63 + 5 = ?$$

	Tens	Ones
	6	3
+		5
___ + ___ =		
___ + ___ =		
Sum		

✔ Apply and Grow: Practice

5. $16 + 72 = ?$

	Tens	Ones
	1	6
+	7	2
___ + ___ =		
___ + ___ =		
Sum		

6. $33 + 43 = ?$

	Tens	Ones
	3	3
+	4	3
___ + ___ =		
___ + ___ =		
Sum		

7. $91 + 7 = ?$

	Tens	Ones
	9	1
+		7
___ + ___ =		
___ + ___ =		
Sum		

8. $25 + 64 = ?$

	Tens	Ones
	2	5
+	6	4
___ + ___ =		
___ + ___ =		
Sum		

9. **DIG DEEPER!** Find the missing digits.

$$
\begin{array}{cc}
1 & 4 \\
+ \, 3 & \square \\
\hline
4 & 6
\end{array}
\qquad
\begin{array}{cc}
4 & 5 \\
+ \, 2 & \square \\
\hline
6 & 9
\end{array}
\qquad
\begin{array}{cc}
6 & 1 \\
+ \, \square & 6 \\
\hline
8 & 7
\end{array}
$$

You read 34 pages one day and 23 the next day. How many pages do you read in all?

Model:

	Tens	Ones
+		
Sum		

_____ pages

Show and Grow   *I can think deeper!*

10. You have 57 common trading cards and 11 rare trading cards. How many trading cards do you have in all?

_____ trading cards

11. A florist has 7 roses, 6 daisies, and 15 tulips. How many flowers are there in all?

_____ flowers

Learning Target: Use partial sums to add.

Add the tens; add the ones. Then add the partial sums to find the whole sum: 60 + 7 = 67.

$46 + 21 = ?$

	Tens	Ones
	4	6
+	2	1
$40 + 20 =$	6	0
$6 + 1 =$		7
Sum	6	7

1.
$55 + 14 = ?$

	Tens	Ones
	5	5
+	1	4
___ + ___ =		
___ + ___ =		
Sum		

2.
$62 + 13 = ?$

	Tens	Ones
	6	2
+	1	3
___ + ___ =		
___ + ___ =		
Sum		

3.
$71 + 8 = ?$

	Tens	Ones
	7	1
+		8
___ + ___ =		
___ + ___ =		
Sum		

4.
$22 + 26 = ?$

	Tens	Ones
	2	2
+	2	6
___ + ___ =		
___ + ___ =		
Sum		

5. **DIG DEEPER!** Find the missing digits. Then find the sum.

	Tens	Ones
	___	4
+	1	___
20 + 10 =	3	0
4 + 5 =	___	9
Sum		

---

6. **MP Modeling Real Life** You have 45 balloons. Your friend has 31. How many balloons do you and your friend have in all?

_____ balloons

---

7. **MP Modeling Real Life** You have 8 toy trains, 4 bouncy balls, and 36 toy soldiers. How many toys do you have in all?

_____ toys

Review & Refresh

8. $16 + 10 =$ _____

9. $45 - 10 =$ _____

10. $50 - 10 =$ _____

11. $63 + 10 =$ _____

Learning Target: Use partial sums to add.

Explore and Grow

Make a quick sketch to find 38 + 19.

	Tens	Ones
+		
___ + ___ =		
___ + ___ =		
Sum		

Repeated Reasoning
How can you write each number as tens plus ones? How does that help you solve?

38 + 19 = ____

$38 + 27 = ?$

Find the partial sums.

	Tens	Ones
	3	8
+	2	7
Tens:	5	0
Ones:	1	5
Sum	6	5

Add the partial sums to find the whole sum.

Show and Grow *I can do it!*

1. $25 + 19 = ?$

	Tens	Ones
	2	5
+	1	9
Tens:		
Ones:		
Sum		

2. $48 + 33 = ?$

	Tens	Ones
	4	8
+	3	3
Tens:		
Ones:		
Sum		

3. $57 + 35 = ?$

	Tens	Ones
	5	7
+	3	5
Tens:		
Ones:		
Sum		

✔ Apply and Grow: Practice

4. 34 + 28 = ?

	Tens	Ones
	3	4
+	2	8
Tens:		
Ones:		
Sum		

5. 15 + 76 = ?

	Tens	Ones
	1	5
+	7	6
Tens:		
Ones:		
Sum		

6. 29 + 62 = ?

	Tens	Ones
	2	9
+	6	2
Tens:		
Ones:		
Sum		

7. 🔴 **Number Sense** Which choices are equal to 35 + 27?

30 + 20 + 5 + 7   80 + 9   62

30 + 50 + 2 + 7   50 + 12   89

8. A giraffe eats 37 pounds of food in the morning and 38 pounds of food in the afternoon. How many pounds of food does the giraffe eat in all?

	Tens	Ones
+		
Tens:		
Ones:		
Sum		

_____ pounds of food

You find 29 items on a scavenger hunt. Your friend finds 17 more than you. How many items does your friend find?

Model:

	Tens	Ones
+		
Tens:		
Ones:		
Sum		

_____ items

Show and Grow   I can think deeper!

9. Your friend climbs 48 stairs. You climb 36 more than your friend. How many stairs do you climb?
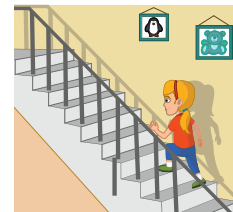
_____ stairs

10. You write 13 fewer words than your friend. You write 39 words. How many words does your friend write?

_____ words

Learning Target: Use partial sums to add.

Find the partial sums.

$43 + 39 = ?$

Add the partial sums to find the whole sum.

	Tens	Ones
	4	3
+	3	9
Tens:	7	0
Ones:	1	2
Sum	8	2

1. $27 + 46 = ?$

	Tens	Ones
	2	7
+	4	6
Tens:		
Ones:		
Sum		

2. $54 + 28 = ?$

	Tens	Ones
	5	4
+	2	8
Tens:		
Ones:		
Sum		

3. $18 + 72 = ?$

	Tens	Ones
+		
Tens:		
Ones:		
Sum		

4. **DIG DEEPER!** Write the missing digits.

	Tens	Ones
	3	___
+	___	8
Tens:	6	0
Ones:	___	5
Sum	7	5

	Tens	Ones
	___	9
+	5	___
Tens:	___	0
Ones:	1	6
Sum	9	6

---

5. You recycle 42 cans and 29 jars. How many items do you recycle in all?

_____ items

---

6. **MP** **Modeling Real Life** Newton plants 63 seeds. Descartes plants 18 more than Newton. How many seeds does Descartes plant?
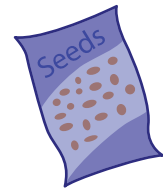
_____ seeds

Review & Refresh

7.

Favorite Instrument

🥁 Drum	🙂	🙂	🙂	🙂	🙂	🙂		
△ Triangle	🙂	🙂	🙂	🙂				

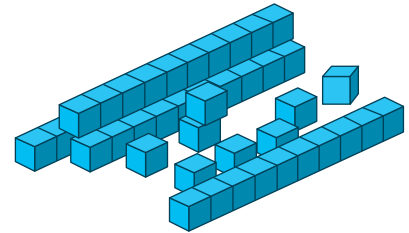Each 🙂 = 1 student.

Which instrument is the most favorite?

Learning Target: Use regrouping to add.

Explore and Grow
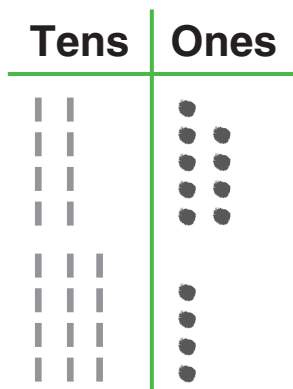
Model the problem. Make a quick sketch to show how you solved.

$$58 + 27 = \underline{\hspace{1cm}}$$

$$29 + 34 = ?$$
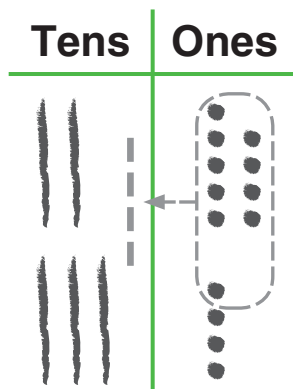
Model the numbers.	Add the ones. Regroup.	Add the tens.

Tens	Ones
	2	9
+	3	4
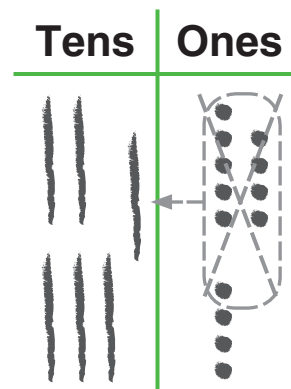
Tens	Ones
(1)	2	9
+	3	4
	3

Tens	Ones
1	2	9
+	3	4
6	3

Show and Grow   I can do it!

1. $46 + 26 = ?$

Tens	Ones

Tens	Ones
4	6
+ 2	6

✓ Apply and Grow: Practice

2. $15 + 37 = ?$

Tens	Ones

Tens	Ones
☐	
1	5
+ 3	7

3. $39 + 32 = ?$

Tens	Ones

Tens	Ones
☐	
3	9
+ 3	2

4. **DIG DEEPER!** When do you need to regroup to add two numbers?

_____

_____

_____

_____

You must spell 60 words correctly to win a spelling game. You spell 19 words correctly in Round 1 and 36 in Round 2. Do you win?

Model:

Tens	Ones

Addition problem:

Tens	Ones
☐	
+	

Communicate Clearly
Explain how you found the sum.

Yes   No

Show and Grow   I can think deeper!

5. You want to do 80 jumping jacks. You do 45 in the morning and 39 in the evening. Do you reach your goal?

Yes   No

6. You raise $38 selling ham sandwiches and $43 selling turkey sandwiches. Your friend raises $72. Who raises more money?
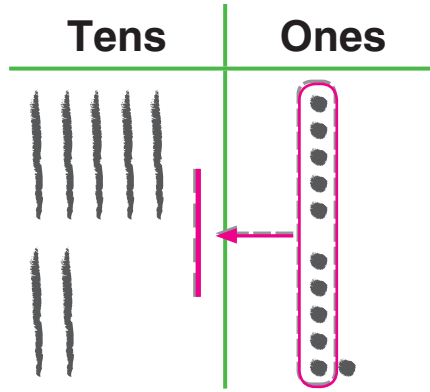
You   Friend

Learning Target: Use regrouping to add.

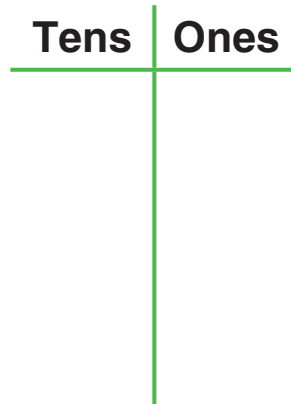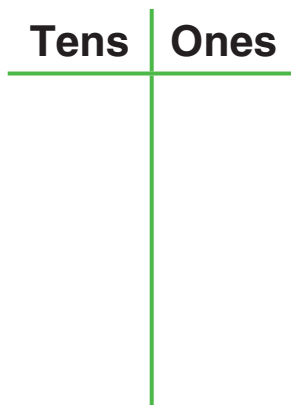Add the ones. Regroup 11 ones as 1 ten and 1 one. Then add the tens.

$$55 + 26 = ?$$

Tens	Ones
1	
5	5
+ 2	6
8	1

1. $36 + 16 = ?$

Tens	Ones

Tens	Ones
3	6
+ 1	6

2. $47 + 39 = ?$

Tens	Ones

Tens	Ones
4	7
+ 3	9

3. **DIG DEEPER!** Do you have to regroup to add?

$43 + 29 = ?$ Yes   No

$54 + 32 = ?$ Yes   No

$33 + 64 = ?$ Yes   No

$17 + 25 = ?$ Yes   No

---

4. **MP Modeling Real Life** There are 50 words in a word search. You find 25 words in rows and 18 words in columns. Did you find all of the words?

B	D	W	A	P	A	R	T
E	H	I	G	H	C	H	D
G	T	L	I	E	R	A	R
I	I	D	W	L	Y	Y	Y
N	E	T	H	O	S	E	M
S	I	G	H	T	R	Y	I
G	L	L	I	G	H	T	N
S	T	E	A	K	M	F	D

Yes   No

---

5. **MP Modeling Real Life** You find 15 white shells and 17 spotted shells. Your friend finds 34 shells. Who finds more shells?

You   Friend

Review & Refresh

Compare.

6. $34 \bigcirc 80$ **7.** $15 \bigcirc 8$ **8.** $67 \bigcirc 67$

Learning Target: Use regrouping when needed to add.

Explore and Grow

Make a quick sketch to find 38 + 24.

Tens	Ones
□	
3	8
+ 2	4

38 + 24 = _____

MP Structure
What step did you use to find 38 + 24 that you would not use to find 31 + 24? Why?

Think and Grow

$58 + 16 = ?$

Tens	Ones
1	
5	8
+ 1	6
7	4

$44 + 21 = ?$

Tens	Ones
4	4
+ 2	1
6	5

Show and Grow   I can do it!

1. $69 + 22 = ?$

Tens	Ones
+	

2. $25 + 37 = ?$

Tens	Ones
+	

3. $31 + 26 = ?$

Tens	Ones
+	

4. $15 + 38 = ?$

5. $62 + 13 = ?$

6. $46 + 49 = ?$

Name _____

7. $33 + 39 = ?$

$+$

8. $23 + 71 = ?$

$+$

9. $17 + 64 = ?$

$+$

10. $54 + 25 = ?$

$+$

11. $47 + 39 = ?$

$+$

12. $28 + 26 = ?$

$+$

13. MP **YOU BE THE TEACHER** Newton finds $26 + 36$. Is he correct? Explain.

$$\begin{array}{r} 2\,|\,6 \\ +\ 3\,|\,6 \\ \hline 5\,|\,2 \end{array}$$

_____

_____

_____

You have 24 gel pens and you buy 36 more. Your friend has 48 and buys 18 more. Who has more gel pens?

You:

Tens	Ones
+	

Friend:

Tens	Ones
+	

Compare:

____ ◯ ____

You   Friend

Show and Grow   *I can think deeper!*

14. You have 32 stencils and you buy 16 more. Your friend has 14 and buys 28 more. Who has more stencils?

You   Friend

15. You have 22 green stars and 17 orange stars. Your friend has 26 blue stars and 12 pink stars. How many stars do you and your friend have in all?

_____ stars

Learning Target: Use regrouping when needed to add.

$$76 + 19 = ?$$

Add the ones. Regroup 15 ones as 1 ten and 5 ones. Then add the tens.

Tens	Ones
1	
7	6
+ 1	9
9	5

1. $47 + 36 = ?$

Tens	Ones
☐	
+	

2. $51 + 28 = ?$

Tens	Ones
☐	
+	

3. $13 + 79 = ?$

Tens	Ones
☐	
+	

4. $54 + 42 = ?$

+

5. $38 + 23 = ?$

+

6. $45 + 44 = ?$

+

7. Writing Find the sum. Write an addition story to match.

$$
\begin{array}{r}
2\,|\,6 \\
+\ 3\,|\,5 \\
\hline
\end{array}
$$

_____

_____

_____

8. 🔵 **Modeling Real Life** You have 35 dimes and you find 17 more. Your friend has 42 and finds 11 more. Who has more dimes?

You   Friend

9. 🔵 **Modeling Real Life** Newton plants 14 red flowers and 14 purple flowers. Descartes plants 26 pink flowers and 26 yellow flowers. How many flowers do Newton and Descartes plant in all?

_____ flowers

Review & Refresh

10. Model 56 two ways.

Tens	Ones

Tens	Ones

_____ tens and _____ ones
is 56.

_____ tens and _____ ones
is 56.

Learning Target: Add two-digit numbers.

Explore and Grow

Use any strategy to find 17 + 23.

Choose Math Tools
What tools can you use to check your answer?

Compare your strategy to your partner's strategy.
Are they the same or different? Explain.

_____

_____

$$27 + 35 = ?$$

One Way: Use partial sums.

```
    2  7
+   3  5
-------
    5  0
    1  2
-------
    6  2
```

Another Way: Regroup.

```
       1
    2  7
+   3  5
-------
    6  2
```

Show and Grow   I can do it!

1.
```
    4  3
+   1  7
```

2.
```
    5  6
+   2  5
```

3.
```
    1  9
+   5  5
```

4.
```
    4  1
+   5  2
```

5.
```
    4  7
+   2  6
```

6.
```
    3  3
+   4  9
```

7.
```
    2  9
+   2  2
```

8.
```
    5  4
+   4  4
```

9.
```
    3  6
+   4  5
```

✓ Apply and Grow: Practice

10.
```
    2  4
  + 1  6
  _____
```

11.
```
    3  7
  + 4  6
  _____
```

12.
```
    1  8
  + 5  9
  _____
```

13.
```
    6  1
  + 3  4
  _____
```

14.
```
    2  3
  + 2  8
  _____
```

15.
```
    4  2
  + 5  7
  _____
```

16. $73 + 17 = ?$

+ _____

17. $82 + 12 = ?$

+ _____

18. $15 + 77 = ?$

+ _____

19. 🍎 **YOU BE THE TEACHER** Descartes finds $38 + 53$. Is he correct? Explain.

```
    3  8
  + 5  3
  _____
    8  1  1
```

_____

_____

_____

Think and Grow: Modeling Real Life

Are there more state parks in North Carolina and Kentucky or in Kentucky and South Carolina?

State Parks	
State	**Number of State Parks**
North Carolina	29
Kentucky	38
South Carolina	43

Addition equations:

Compare: _____ ◯ _____

There are more state parks in _____ and _____.

Show and Grow   I can think deeper!

20. Are there more students in first and second grade or in first and third grade?

Students at School	
Grade	**Number of Students**
First	37
Second	53
Third	49

There are more students in _____ and _____ grade.

Learning Target: Add two-digit numbers.

$$46 + 37 = ?$$

One Way: Use partial sums.

```
    4  6
 +  3  7
 ───────
    7  0
    1  3
 ───────
    8  3
```

Another Way: Regroup.

```
    1
    4  6
 +  3  7
 ───────
    8  3
```

1.
```
    6  3
 +  1  2
 ───────
```

2.
```
    3  2
 +  5  8
 ───────
```

3.
```
    5  3
 +  3  8
 ───────
```

4.
```
    1  3
 +  3  9
 ───────
```

5.
```
    6  2
 +  1  8
 ───────
```

6.
```
    4  8
 +  1  6
 ───────
```

7. $11 + 66 = ?$

+ _____

8. $64 + 21 = ?$

+ _____

9. $79 + 14 = ?$

+ _____

10. DIG DEEPER! Find the missing digits.

$$
\begin{array}{r}
3\ \boxed{} \\
+\ 4\quad5 \\
\hline
\boxed{}\quad1
\end{array}
\qquad
\begin{array}{r}
\boxed{}\quad5 \\
+\ 3\ \boxed{} \\
\hline
9\quad7
\end{array}
\qquad
\begin{array}{r}
\boxed{}\quad4 \\
+\ 4\quad8 \\
\hline
7\ \boxed{}
\end{array}
$$

11. (MP) **Modeling Real Life** Do more people attend the show on Monday and Tuesday or on Tuesday and Wednesday?
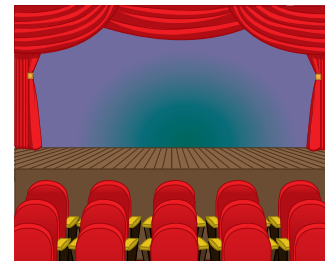
People at the Show	
Day	**Number of People**
Monday	48
Tuesday	26
Wednesday	56

Monday and Tuesday   Tuesday and Wednesday

Review & Refresh

12. Order from shortest to longest.

red

green

purple

_____ , _____ , _____
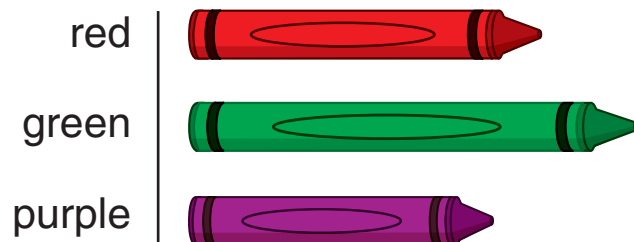
Learning Target: Add up to 3 two-digit numbers.

Explore and Grow

Add the circled numbers first. Then find the sum of all three numbers.

$\text{(34)} + \text{(26)} + 24 =$ _____

$34 + \text{(26)} + \text{(24)} =$ _____

$\text{(34)} + 26 + \text{(24)} =$ _____

What is the same? What is different?

_____

_____

_____

$$37 + 14 + 23 = ?$$

One Way:

Remember, you can add in any order.

```
    3 | 7
    1 | (4)
  + 2 | (3) }7
  --------
    7 | 4
```

Another Way:

If you can, make a 10 to help you add.

```
    3 | (7)
    1 | 4  }10
  + 2 | (3)
  --------
    7 | 4
```

Show and Grow   I can do it!

1.
```
    1 | 6
    3 | 4
  + 2 | 1
  --------
```

2.
```
    3 | 3
    1 | 5
  + 1 | 7
  --------
```

3.
```
    3 | 1
    1 | 2
  + 2 | 4
  --------
```

4.
```
    2 | 5
    1 | 5
  + 1 | 3
  --------
```

5.
```
    2 | 9
    2 | 2
  + 2 | 3
  --------
```

6.
```
    1 | 9
    3 | 2
  + 1 | 1
  --------
```

7.
```
    1   8
    2   8
  + 4   2
  --------
```

8.
```
    5   3
    1   3
  + 1   9
  --------
```

9.
```
    2   7
    2   7
  + 2   5
  --------
```

✓ Apply and Grow: Practice

10.
```
    2  3
    4  2
 +  1  7
 _____
```

11.
```
    1  8
    3  4
 +  2  6
 _____
```

12.
```
    5  1
    2  2
 +  2  6
 _____
```

13.
```
    3  0
    4  5
 +  1  9
 _____
```

14.
```
    2  4
    2  1
 +  2  8
 _____
```

15.
```
    3  9
    1  2
 +  3  1
 _____
```

16.
```
    1  4
    2  0
 +  3  5
 _____
```

17.
```
    4  6
    1  1
 +  3  2
 _____
```

18.
```
    3  5
    3  3
 +  2  9
 _____
```

19. **MP** **Reasoning** You make a 10 to add 16, 38, and 24. Which digits do you add first? Explain.

_____

_____

_____

Newton buys the items shown. How much money does he spend?

$12 $21 $18

Addition problem:

+ _____ $ _____

Show and Grow I can think deeper!

20. Descartes buys the items shown. How much money does he spend?

$19 $15 $13

$ _____
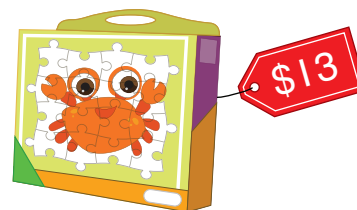
21. Newton sells 2 large candles and 1 small candle. How much money does he earn?

Large $26   Small $14

$ _____

Learning Target: Add up to 3 two-digit numbers.

> Remember, you can add in any order.

One Way:

```
  2 | 6
  3 | ②
+ 1 | ④  ⟩6
  7 | 2
```

Another Way:

```
  2 | ⑥
  3 | 2  ⟩10
+ 1 | ④
  7 | 2
```

1.
```
  1 | 1
  2 | 3
+ 4 | 7
```

2.
```
  3 | 2
  1 | 4
+ 2 | 8
```

3.
```
  1 | 6
  3 | 7
+ 3 | 3
```

4.
```
  4   3
  1   7
+ 3   7
```

5.
```
  1   5
  4   4
+ 1   1
```

6.
```
  1   6
  2   9
+ 3   8
```

7.
```
  3   1
  2   8
+ 1   2
```

8.
```
  5   6
  2   6
+ 1   3
```

9.
```
  3   5
  2   3
+ 3   9
```

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10. **DIG DEEPER!** Solve two different ways.

$$\begin{array}{r} 3\ 8 \\ 3\ 6 \\ +\ 2\ 2 \\ \hline \end{array}$$ $$\begin{array}{r} 3\ 8 \\ 3\ 6 \\ +\ 2\ 2 \\ \hline \end{array}$$

---

11. **MP Modeling Real Life** Descartes buys the items shown. How much money does he spend?

$41 $27 $13

$ _____

---

12. **MP Modeling Real Life** Your cousin buys the items shown. How much money does she spend?

$24 $7 $36

$ _____

Review & Refresh

Is the number even or odd?

13.   18

Even   Odd

14.   17

Even   Odd

Explore and Grow

Model the story.

There are 11 red ants and 14 black ants. 15 more black ants join them. How many ants are there now?
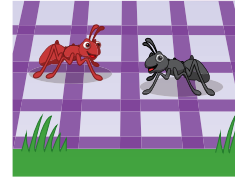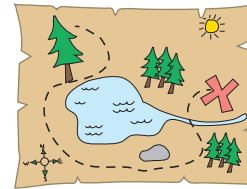
Analyze a Problem
Are the colors of the ants important to solve the problem? Why or why not?

_____ ants

You find 19 objects in a scavenger hunt.
You find 13 fewer objects than your friend.
How many objects does your friend find?

Circle what you know.

Underline what you need to find.

Write and solve an addition problem.

Solve:

Use a model to help organize the information.

Friend: 32

You: 19 | 13

32 objects

$$1$$
$$19$$
$$+13$$
$$32$$

Show and Grow   I can do it!

1. You have 66 marbles. You have 26 fewer marbles than your friend. How many marbles does your friend have?
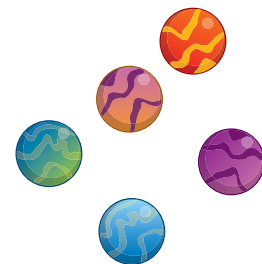
_____ marbles

✓ Apply and Grow: Practice

2. You collect 16 red leaves, 21 orange leaves, and 14 yellow leaves. How many leaves do you collect in all?
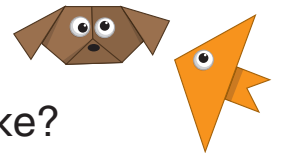
_____ leaves

3. A dentist has 41 toothbrushes. She buys some more. Now she has 85. How many toothbrushes did the dentist buy?

_____ toothbrushes

4. You make 17 origami dogs and 13 origami fish. Your friend makes 12 more origami animals than you. How many origami animals does your friend make?

Step 1: How many origami animals do you make?

```
    ☐
+   ☐
─────
    ☐
```

Step 2: How many origami animals does your friend make?

```
    ☐
+   ☐
─────
    ☐
```

_____ origami animals

You make a paper chain. Your friend adds 24 links to your chain. Now there are 57. How many links were there to start?

_____ links

Show and Grow   I can think deeper!

5. You have some stickers. Your friend gives you 32 more stickers. Now you have 58. How many stickers did you have to start?

_____ stickers

6. There are 3 buses. There are 29 students on each of the first 2 buses. There are 88 students in all. How many students are on the third bus?

_____ students

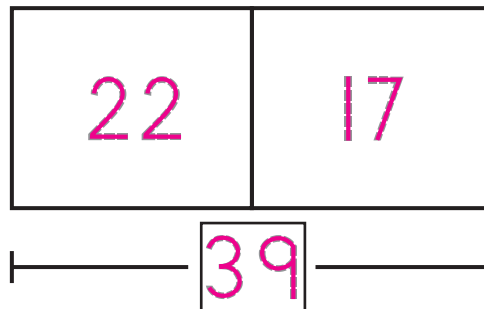**Learning Target:** Solve one- and two-step addition problems.

You see 22 orange butterflies and some yellow butterflies.

You see 39 in all. How many yellow butterflies do you see?

Circle what you know.   Underline what you need to find.

Solve:

22	17

39

$$\begin{array}{r} 22 \\ +\ 17 \\ \hline 39 \end{array}$$

__17__ yellow butterflies

1. You study for 31 minutes. You study 11 fewer minutes than your friend. How long does your friend study?
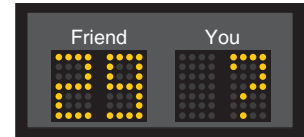
_____ minutes

2. You see 23 red cars, 25 black cars, and 15 blue cars. How many cars do you see in all?

_____ cars

3. **Number Sense** Your friend scores 29 points. You score 16 more points than your friend. Use the given numbers to find how many points you and your friend score in all.

| 16 | 74 | 29 | 45 |

Step 1:

$$\begin{array}{r} 29 \\ + \boxed{} \\ \hline \boxed{} \end{array}$$

Step 2:

$$\begin{array}{r} \boxed{} \\ + 45 \\ \hline \boxed{} \end{array}$$

_____ points

4. **DIG DEEPER!** In Exercise 3, Newton scores 4 three-point shots. How many points do you, your friend, and Newton score in all?

_____ points

5. **Modeling Real Life** There are 3 subway cars. There are 36 people on each of the first 2 subway cars. There are 92 people in all. How many people are on the third subway car?

_____ people

Review & Refresh

6. $50 - 10 = $ _____

7. $90 - 40 = $ _____

1. a. You swim for 37 minutes on Monday. You swim 12 more minutes on Tuesday than on Monday. How many minutes do you swim in all?
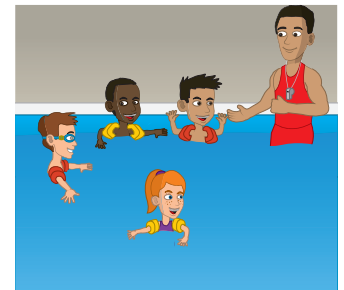
_____ minutes

b. Do you swim an even or odd number of minutes in all?

Even   Odd

2. a. There are 35 girls and some boys signed up for swim lessons this year. There are 83 kids signed up in all. Then some more boys sign up. Now there are 56 boys signed up. How many more boys signed up for swim lessons?

_____ more boys

b. Last year there were 95 kids signed up for swim lessons. 45 were girls. Are there more boys signed up for swim lessons this year or last year?

This year   Last year

Solve and Cover: Addition

To Play: Place a Solve and Cover: Addition Sum Card on each box. Players take turns. On your turn, flip over a Solve and Cover: Addition Problem Card. Solve the problem. Place the problem card on the sum. Play until all sums are covered.
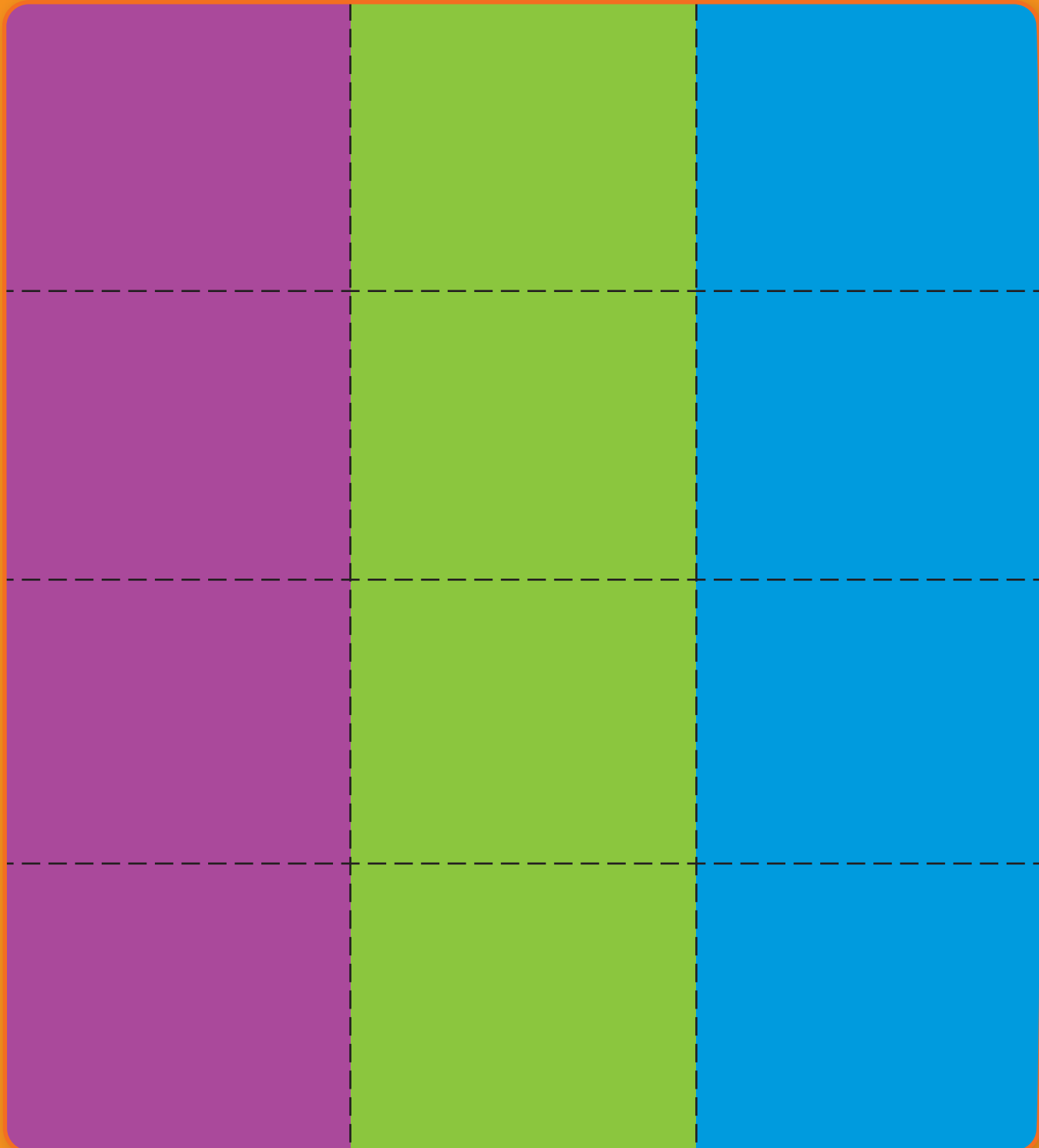
4.1   Use Partial Sums to Add

1.

$35 + 22 = ?$

	Tens	Ones
	3	5
+	2	2
____ + ____ =		
____ + ____ =		
Sum		

2.

$81 + 8 = ?$

	Tens	Ones
	8	1
+		8
____ + ____ =		
____ + ____ =		
Sum		

4.2   More Partial Sums

3. $26 + 43 = ?$

	Tens	Ones
	2	6
+	4	3
Tens:		
Ones:		
Sum		

4. $64 + 19 = ?$

	Tens	Ones
+		
Tens:		
Ones:		
Sum		

5. 🔵 **Modeling Real Life** You want to complete 40 hours of volunteer work this year. You complete 28 hours during the school year and 13 during the summer. Do you reach your goal?

Model:

Tens	Ones

Addition Problem:

Tens	Ones
☐	
+	

Yes   No

---

6. $14 + 77 = ?$

Tens	Ones
☐	
+	

7. $35 + 35 = ?$

Tens	Ones
☐	
+	

8. $43 + 49 = ?$

Tens	Ones
☐	
+	

9.

```
    3   6
+   3   8
_____
```

10.

```
    6   2
+   2   9
_____
```

11.

```
    2   5
+   4   5
_____
```

12. **MP** **Number Sense** Find the missing digits.

```
  □     5
+   3   □
_____
    4   9
```

```
    4   □
+   2   8
_____
  □     6
```

```
  □     6
+   1   4
_____
    7   □
```

4.6 Add Up to 3 Two-Digit Numbers

13.

```
    1 | 2
    3 | 2
+   1 | 8
_____
```

14.

```
    5 | 0
    2 | 8
+   1 | 8
_____
```

15.

```
    2 | 5
    3 | 7
+   2 | 5
_____
```

16.

```
    1   7
    2   6
+   1   2
_____
```

17.

```
    2   7
    3   3
+   1   8
_____
```

18.

```
    1   5
    1   8
+   1   6
_____
```

19. **Modeling Real Life** You, Newton, and Descartes play paddle ball. You record how many times each of you hits the ball in a row. How many times is the ball hit in all?
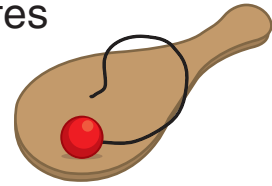
Scores

You: 22

Newton: 18

Descartes: 30

_____ times

(4.7) More Problem Solving: Addition

20. **Modeling Real Life** You pick 11 berries and 23 apples. Your friend picks 18 more pieces of fruit than you. How many pieces does your friend pick?

Step 1: How many pieces of fruit do you pick?

Step 2: How many pieces of fruit does your friend pick?

```
   ☐
 + ☐
 ───
   ☐
```

```
   ☐
 + ☐
 ───
   ☐
```
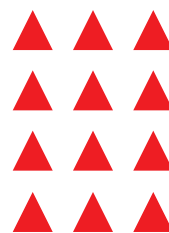
_____ pieces of fruit

1. Which equation represents the array?

○ 4 + 4 = 8

○ 4 + 3 = 7

○ 3 + 3 + 3 + 3 = 12

○ 3 + 3 + 3 = 9

---

2. Which expressions are equal to 62 + 24?

○ 60 + 20 + 2 + 4   ○ 50 + 16

○ 60 + 26   ○ 80 + 6

---

3. Is each sum equal to 7 + 4?

10 + 2	Yes	No
10 + 1	Yes	No
8 + 4	Yes	No
10 + 4	Yes	No

4. Write an equation that matches the number line.

_____ + _____ = _____

---
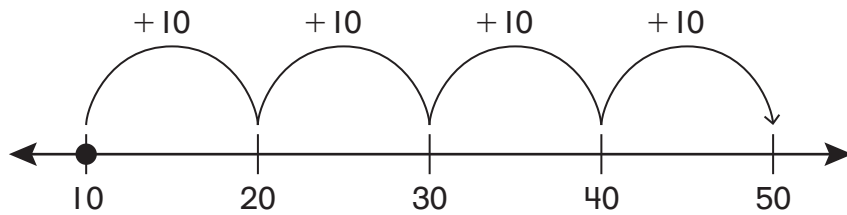
5. Which expressions do you need to regroup to solve?

○ 30 + 29

○ 54 + 38

○ 43 + 44

○ 62 + 28

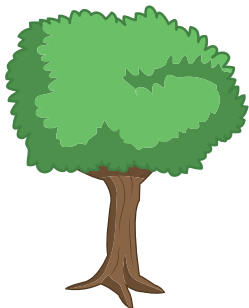**6.** Which equation has an even sum greater than 14?

○ 6 + 6 = ?
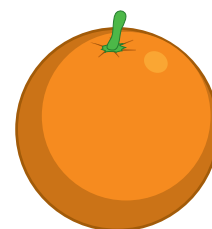
○ 7 + 8 = ?

○ 8 + 8 = ?

○ 6 + 7 = ?

7. There are 4 rows of trees. Each row has 5 trees. How many trees are there in all?

_____ + _____ + _____ + _____ = _____

8. You have 16 oranges. You give 7 away. How many oranges do you have left?

_____ oranges

9. Find the sum.

$$\begin{array}{r} 2\ 4 \\ 1\ 2 \\ +\ 3\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3\ 1 \\ 1\ 4 \\ +\ 4\ 2 \\ \hline \end{array}$$
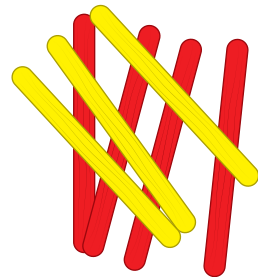
10. Find the sum. Write the double you used.

$7 + 8 = $ _____   _____ $+$ _____ $=$ _____

---

11. Break apart the addends to find $42 + 37$.

$42 + 37 = $ _____

---

12. You have 64 craft sticks for a project. 22 are red. The rest are yellow. You buy 39 more yellow craft sticks. How many yellow craft sticks do you have now?

_____ yellow craft sticks