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VersaTiles® Addition and Subtraction: To 20 and Beyond, Grade 2

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16 17 18 19 20 21 22 9 8 7 6 5 4 3 2 1



## Let's Search for Facts

### Find the matching fact.

- The music room has 2 drums and 8 horns. How many in all?
- A box has 7 crayons. How many crayons are in 2 boxes?
- How many legs are on a cat and a chicken?
- 7 How many legs are on 2 dogs?
- 9 How many tails are on 2 lions?
- How many fingers are on one pair of gloves?

- Room A has 2 rabbits. Room B has 6 fish. How many pets in all?
- 4 One car has 6 seats. How many seats do 2 cars have?
- 6 There are 3 pencils and 5 pens. How many in all?
- 8 How many arms are on 2 octopuses?
- The club has 8 girls and 3 boys. How many in all?
- How many wings are on 2 birds?

A B C D E F
$$4 + 2 = 6 \quad 5 + 5 = 10 \quad 4 + 4 = 8 \quad 8 + 3 = 11 \quad 2 + 2 = 4 \quad 8 + 8 = 16$$

$$1 + 1 = 2 \quad 7 + 7 = 14 \quad 2 + 8 = 10 \quad 6 + 6 = 12 \quad 2 + 6 = 8 \quad 3 + 5 = 8$$
G H I J K L

Objective: Name the addition fact that solves a problem.



### Solve It

#### Solve.

Henry has 22 toy cars. He buys 12 more.

1 How many cars does he have now?

Linda had \$36. Her mom gave her \$15.

How much money does Linda have now?

Sam had 13 hair bands. She bought another 25 hair bands.

How many hair bands does Sam have in all?

Derrick has 48 rare coins. He gives 17 to his cousin.

How many coins does Derrick have left?

The Pruitt family won \$69 in a raffle. They spent \$12 of it on snacks.

5 How much did they have left?

Caesar had 72 cards, but lost 26 of them.

How many cards does Caesar have now?



#### Solve.

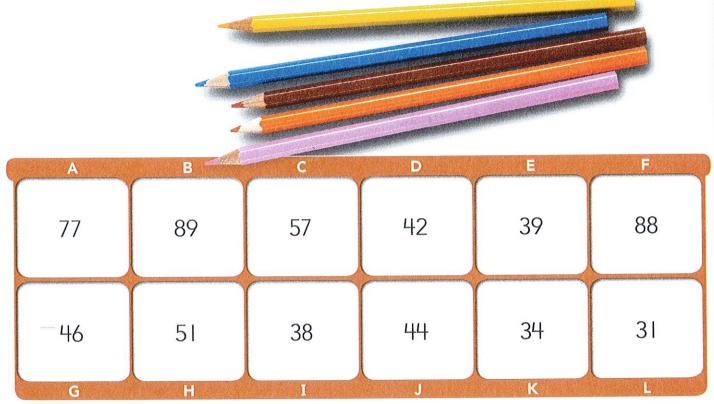
- 7 The bowl has 23 apples and 16 peaches.
  How many in all?
- The store had 86 apples. 42 were sold. How many are left?
- There are 69 balls in the bin. The kids took 27 to recess. How many are left?

- 8 Mario has 76 cats, Jeff has 13? How many cats in all?
- Juan has 22 pencils and Karim has 66.
  How many do they have together?
  - Julia read 23 books.

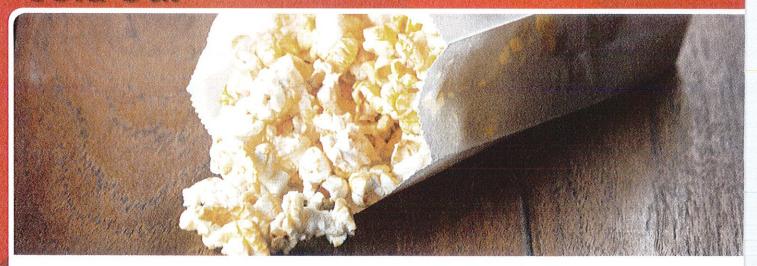
    Larry read 54. How

    many books did they

    read in all?



### Sold Out



#### Solve.

The students sold 57 tickets on Friday. They sold 39 tickets on Saturday.

- 1 How many tickets were sold on both days?
- How many more tickets were sold on Friday than Saturday?

The school printed 88 programs. There were 16 programs left.

3 How many programs were given out?

Class 2A sold 26 bags of popcorn. Class 2B sold 37 bags of popcorn.

- How many bags of popcorn were sold in all?
- **5** How many more bags did Class 2B sell?

There were 59 children in the audience and 28 adults.

6

How many people were in the audience?

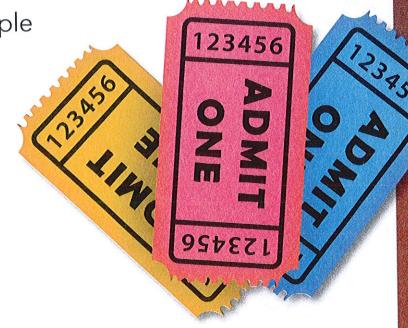
7

How many more children than adults?

- 32 people sat on the right side.
- 57 people sat on the left side.
- 8

How many fewer people sat on the right side?

- Way many poople
- 9 How many people were there in all?
- 10
- 34 + 38 = 85
- 11
- -43 = 32
- 12
- 43 + M = 95



63	B 51	87	18	72	75
31	96	25	52 J	II.	89

Objective: Solve addition and subtraction word problems within 100.

# Tables on Tables

### Find the missing sum.

+	0	I	2	3	4	5	6	7	8	9
0	1	l	2	3	2	5	6	7	8	9
l	l	3	3	4	5	6	7	8	9	10
2	2	3	4	5	4	7	8	9	5	11
3	6	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	- 14
6	6	7	8	9	10	11	12	8	14	15
7	7	9	9	10	11	12	13	14	15	16
8	8	9	10	10	12	13	14	15	16	17
9	11	10	11	12	13	14	12	16	17	18

A	B	C	D	E	F
0	6	10	9	4	3
7	11	8	2	15	13

# Table Talk

### Find the missing sum.

+	0		2	3
3	3	1	5	6
4	4	5	2	7



Look for a pattern to add.

+	2	3	4	5
8	10	3	12	13
9	11	12	4	14

+	6	7	8	9
6	12	13	5	15
7	13	14	15	6

+	4	5	6	7
	7	6	8	9
2	6	7	8	10

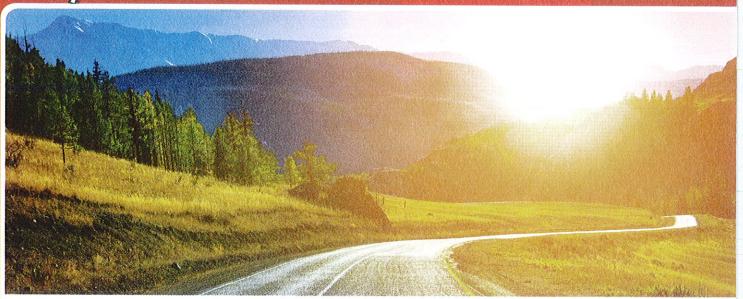
+	4	5	6	7
7	11	11	13	14
8	12	13	14	12

A	В	C	D	E	F
15	7	9	5	14	12
6	16	4	13	8	11
G	H	I	J	K	<u> </u>

Objective: Find a missing sum in an addition table.



## Play Practice



#### Solve.

There were 17 boys and 25 girls dancing in Scene 1.

How many students danced in Scene 1?

2

How many more girls than boys danced in Scene 1?

Alice practices 6 hours each week.

3

How many hours does she practice in 2 weeks?

4

How many hours does she practice in 3 weeks?

Carlos and Keiko drove 44 miles one way to see the play. Keiko drove 38 miles.

5

How many miles did Carlos drive one way?



How many miles did they drive round trip?

The dancers in the play practice for 35 minutes each day.



How many minutes in all did the dancers practice on Monday and Tuesday?



How many more minutes do they need to practice to equal a total of I hour of practice each day?

The children sell 63 small T-shirts. They sell 28 large T-shirts.



How many T-shirts do they sell in all?



How many fewer large T-shirts do they sell?

The school printed 43 pictures of the rehearsal and 56 pictures of the play.



How many more pictures were printed of the play than of the rehearsal?



How many pictures were printed in all?

A	3	C	D	E	F
13	6	88	8	35	70
12	91	25	99	18	42
G	H	l	J	K	L





# What's the Total?

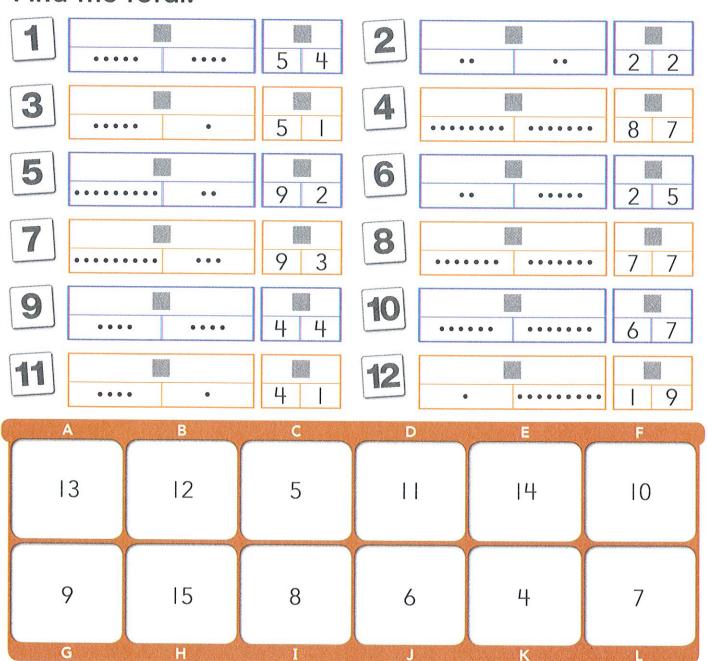
Example

The two parts make the total.

		7	
• • •	0000	3	4

The total is 7.

#### Find the total.



Objective: Use a part-part-total model to find a sum.



## Parts Missing

### Find the missing number.













A	B	C	D	E	F
l	2	6	7	4	3
9	11	5	10	0	8
G	H	Ī	J	K	L

Objective: Use a part-part-total model to find a missing addend.



# How Many?



#### Solve.

The ranch has 58 white horses and 27 brown horses.

- 1 How many horses in all?
- 2 How many more white horses than brown horses are there?

34 people rode the roller coaster Monday. 59 people rode the roller coaster Tuesday.

- How many fewer people rode on Monday?
- How many people rode both days?

A farmer used 57 bales of hay in March and 33 bales in April.

- 5 How many fewer bales were used in April?
- 6 How many were used in both months?

Juan worked 35 hours the first week and 42 hours the second week.



How many hours did Juan work in all?



How many more hours did Juan work the second week?

A zoo has 42 monkeys and some giraffes. It has 13 more monkeys than giraffes.



How many giraffes does the zoo have?

44 people rode the train. 15 more people rode the subway than the train.



10 How many people rode the subway?

$$+ 32 = 67$$

A	B	C	D	E	F
93	85	31	90	25	29
59	77	23	7	35	24
<b>G</b>	Н	1	J	K	L

# Seeing Double

#### Find the sum.

1 6+6

2 | + |

**3** 2 + 2

4 5+5

**5** 8 + 8

6 9+9

7 10 + 10

8 3 + 3

Doubles have addends that are both the same number.

Tip

A week has 7 days.

How many days are there in 2 weeks?

Eleven goldfish swim in a tank. Eleven guppy fish swim. How many fish swim in all?

11 12 boys and 12 girls skateboard. How many skateboard in all?

Four birds sit in one nest. Four birds sit on a wire. How many birds are there in all?

A В C D 2 18 12 10 14 4 6 8 22 20 24 16 G

Objective: Find the sum of doubles.

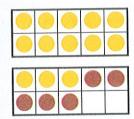


### More or Less

Example

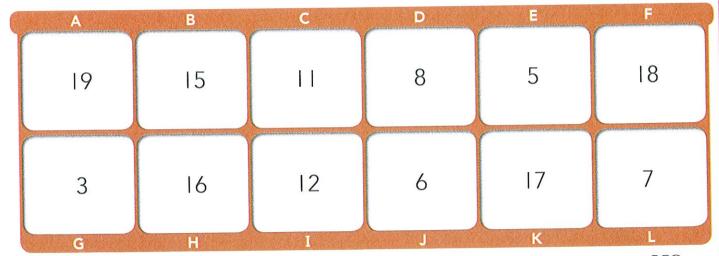
Find the correct number.

$$13 + 5 = 18$$



Find the correct number.

- What number is 6 more than 5?
- 14 more than what number is 17?
- What number is 9 less than 14?
- 5 more than what number is 13?
- 19 is 12 more than what number?
- 13 is 3 fewer than what number?



# Let's Compare

#### Solve.

The library has 46 books about balloons and 54 books about lions.

- 1 How many fewer books are about lions than are about balloons?
- How many books are there in all?



58 people went to a movie. 9 fewer people read the book.

3 How many people read the book?

There are 57 fence posts on the east field. There are 18 more fence posts on the north field than the east field.

How many fence posts are on the north field?

James has 19 flag stamps. He has 18 more flower stamps than flag stamps.

How many flower stamps does James have?

There are 34 students in Ms. Vi's class and 27 students in Mr. Chu's class.



How many students are there in total?



How many fewer students are in Mr. Chu's class?

The Silver Skiing Trail is 57 miles. The Gold Skiing Trail is 39 miles.



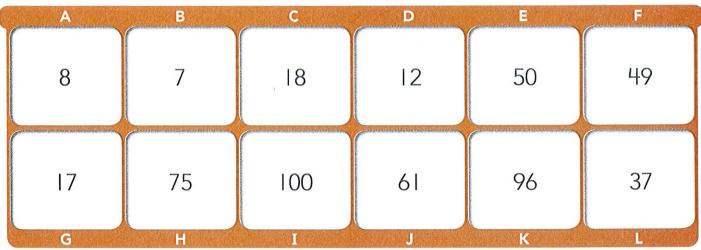
How many more miles is the Gold Trail than the Silver Trail?



How many miles of trails in all?



$$1 + 32 = 49$$



# Facts Helping Facts

### Find the missing number.

$$|3|$$
 +  $|2|$  =  $|2|$ , so  $|2|$  -  $|2|$  =  $|1|$ 

$$9 + 9 = 11, so$$
 $11 - 9 = 11$ 

$$11$$
 + 7 = 13, so  $13 - 7 = 1$ 

$$3 + 1 = 12, so$$

$$+ 9 = 16, so$$
 $16 - 9 = 11$ 

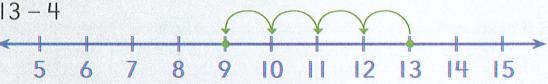
A	8	C	D	E	F
2	0	5		3	7
I	6	4	9	8	14
C	H	1	J	K	A section ${f L}$ is constant.

# Taking It All Away

Example

#### Find the difference.

13 - 4



#### Find the difference.



4		16	9	6	14
8	5	7	3	10	2

### In a Pickle



#### Solve.

Carol ordered one dozen rolls.

She added 15 more rolls to her order.

1 Now how many rolls are in her order?

There are 59 pickles in a jar.

23 pickles are taken from the jar.

2 How many pickles are left in the jar?

Jacob spent 45 minutes driving to work. Then he spent 10 minutes getting gas.

3 How many minutes was this?

How many fewer minutes did he spend getting gas than driving?

Yolanda had 76 stickers. She gave away 22 stickers.

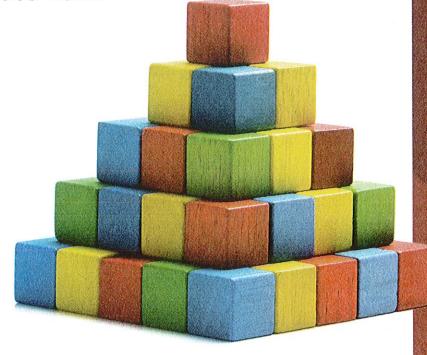
How many stickers does Yolanda have left?

An aquarium had 80 gallons of water. Stanley drained out 37 gallons.

6 How many gallons are left?

Keith had 92 building blocks. He gave 46 of them to Joey.





A	В	C	D	E	F
56	21	90	46	54	22
43	36	27	35	55	18
<b>G</b>	H	I	J	K	L

Objective: Solve one-step word problems involving addition and subtraction within 100.



# Facts Hunt

Example

Find the addition that equals the sum, 3.

$$3 = 2 + \uparrow$$
equals plus

3 is the sum of 2 + 1.

Find the addition that equals the sum.

- 13
- 4

- 6
- 10

- - 15

- 12
- - 14



6 + 8

$$5 + 2$$

$$8 + 7$$

$$3 + 2$$

$$2 + 8$$

$$3 + 1$$

$$3 + 9$$

$$8 + 3$$

$$6 + 7$$

Objective: Find the addition expression that equals a given sum.



## We're Related

### Find the missing number.

4 + 3 = 7, so

 $3 + 4 = \square$ 

5 + 3 = 8, so

3 + 5 = 11

 $5 \mid 7 + 5 = 12, so$ 

5 + 7 = 11

 $7 \mid 6 + 5 = 11, so$ 

5 + 6 =

6 + 9 = 15, so

9 + 6 = 11

11 7 + 6 = 13, so

+ 7 = 13

2 + 4 = 10, so

+ 6 = 10

4 + 8 = 14, so

8 + 6 =

 $6 \mid 4 + 5 = 9, so$ 

+ 4 = 9

 $8 \mid 9 + 3 = 12, so$ 

+ 9 = 12

7 + 3 = 10, so

 $3 + 7 = \square$ 

| 12 | 3 + 6 = 9, so

6 + 3 =

A E F В C D 14 7 5 4 15 8 3 12 10 11 9 6 G H

## Two-Step Addition and Subtracton

Solve.

There are 9 purple grapes and 4 green grapes. Maria ate 2 grapes.



There are 12 drinks. 2 are juice boxes, and 3 are water. The rest are milk boxes.

2 How many milk boxes are there?

Jane ran 40 minutes. Edward ran 10 minutes and Peter ran 5 minutes.

3 What was their total time running?

A dance class had 40 students. 2 students stopped lessons. Then 5 more students joined.

4 How many students are there now?

Fatina biked 35 miles. She biked 17 miles on Friday and 15 miles on Saturday. She biked some more miles on Sunday.

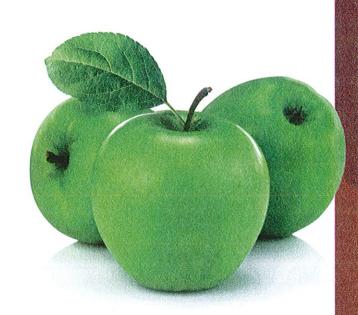
How many miles did she bike on Sunday?



Clarence gave an apple to each of his II friends. Now he has I apple left.

6 How many apples did he start with?

#### Solve.



A	B	C	Ď	E	F
3	80	7	12	57	50
68	55	98	45	43	11
G	H	I	J	K	L

Objective: Solve two-step addition and subtraction word problems.



## Let's Two-Step

#### Solve.

Todd has 30 fish. His brother has 10 less fish than Todd.

1

How many fish do they have in all?

Trisha spent \$7 and then \$4. She had \$9 left.

2

How much money did Trisha begin with?



Matt got 16 emails. He deleted 7 of them. Then he got 5 more emails.

3

Now how many emails does he have?

Ulysses won 38 tickets. He also won 27 tickets. Then he lost some tickets. He had 57 tickets left.

4

How many tickets did Ulysses lose?

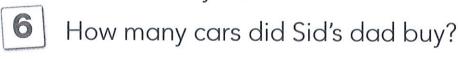
The band had 21 trophies. They won 2 more trophies. Then they won 6 more trophies.



Now how many trophies does the band have?



Sid had 32 toy cars. He lost 3 of them. His dad bought him some more. Sid now has 34 toy cars.









A	В	C	Ď	E	Ē
20	63	29	0	50	28
52	5	14	60	100	8
G	8	I	J	K	L

# Let's Add



### Find the missing number.

1



$$8 + 7 = \square$$

2



Tip

Add the two parts to find the whole.

3



$$3 + 3 = \square$$

4



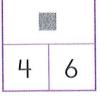
$$7 + 6 = M$$

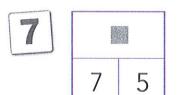
5



$$1 + 7 = 10$$

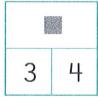
6



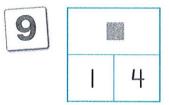


$$7 + 5 = 10$$

8



$$3 + 4 = \square$$



$$1 + 4 = \square$$

10



8 6

$$8 + 6 = 10$$

12



$$4 + 5 = 11$$



A	В	C	D	E	F
6	14	13	3	10	7
8	5	12	15	9	11
•	H	I	J	K	L

Objective: Complete an addition sentence using a part-part-total model.

### Show What You Know

Find the sum or difference.

- If six and nine are added, how many are there?
- 7 How much is eight take away four?
- 9 What is the difference between nine and seven?
- How much more than five is ten?

- 6 What is the sum of 9 and 8?
  - What is the sum of 8 and 6?
- What is the difference between twelve and nine?
- How much more than 0 is 8?

8 8	B I	9	16	7	5
17	14	4	3	15	2

# Buy or Sell

#### Find the sum or difference.

\$6 + \$8

**2** \$9 - \$3

Tip

Be sure to

answer!

put \$ in the

**3** \$9 + \$6 **4** \$9 + \$9

**5** \$13 - \$6

**6** \$14 - \$6

**7** \$7 - \$4

**8** \$7 + \$4

9 \$10 - \$9

11 \$1 - \$1

**11** \$9 + \$7

**12** \$7 + \$6



\$3 \$0 \$8 \$6 \$7 \$16

\$18 \$14 \$11 \$13 \$15 \$1

# Facts Prove It

Example

Find the subtraction that equals the difference, 6.

6 is the difference of 9 - 3.

Find the subtraction that equals the difference.

4

9

8

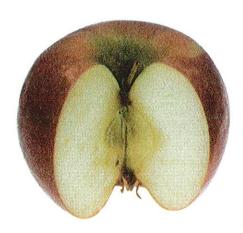
6

- 6 3
- 10
- 8 5

11

10 2

0





- 9 5
- ||-|
- 11 0
- 7 6
- 13 8
- 5 2

- 5 3
- 14 6
- 13 7
- 13 6
- 15 6
- 6-6







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