



Reteach

Chapter 2



Lesson 1 Reteach*Addition Properties*

You can use different strategies to help you add.

<p>Commutative Property</p> <p>You can change the order of the addends, but the sum is always the same.</p> $4 + 5 = 9$ $5 + 4 = 9$
<p>Identity Property</p> <p>When you add 0 to a number, the sum is always that number.</p> $6 + 0 = 6$
<p>Associative Property</p> <p>You can group the addends and keep the sum the same.</p> $(2 + 4) + 6 = 2 + (4 + 6)$ $6 + 6 = 2 + 10$ $12 = 12$

Fill in the blank.

- If you know $3 + 6 = \underline{\hspace{2cm}}$, then you know
 $\underline{\hspace{2cm}} + 3 = \underline{\hspace{2cm}}$.
- If you know $8 + 0 = \underline{\hspace{2cm}}$, then you know
 $\underline{\hspace{2cm}} + 8 = \underline{\hspace{2cm}}$.
- If you know $(5 + 6) + 4 = \underline{\hspace{2cm}}$, then you know
 $5 + (\underline{\hspace{2cm}} + 4) = \underline{\hspace{2cm}}$.

Find each sum.

- | | | |
|--|---|--|
| 4. $4 + 7 = \underline{\hspace{2cm}}$ | 5. $9 + 2 = \underline{\hspace{2cm}}$ | 6. $7 + 5 = \underline{\hspace{2cm}}$ |
| 7. $3 + 9 = \underline{\hspace{2cm}}$ | 8. $12 + 5 = \underline{\hspace{2cm}}$ | 9. $0 + 4 = \underline{\hspace{2cm}}$ |

Lesson 2 Reteach

Patterns in the Addition Table

You can use an addition table to find sums.

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

To find $2 + 2$, put your finger on the 2 in the first row. Then find the 2 in the first column. Follow the arrows until they meet at the number 4. So, the sum of $2 + 2$ is 4.

You can also use the addition table to find which two numbers equal a sum. Put your finger on any square inside the table with the number 10. Follow the arrows to the numbers 4 and 6. So, $4 + 6 = 10$.

Use the addition table.

- Which two addends make a sum of the shaded 15? Write the number sentence.

- Write 3 number sentences to show the sum of 18.

- Wyatt read 6 books in January and 7 books in February. Find the total number of books that Wyatt read. Write two number sentences.

- Colton bought a movie ticket for \$8 and a bag of popcorn for \$4. Find how much Colton spent in all. Write two number sentences.

Lesson 3 Reteach

Addition Patterns

You can use a number grid to find patterns in numbers.

As you look across a row from left to right, the numbers increase by 1. The pattern is $+ 1$, so the number in the ones place increases by 1 each time. As you look across a row from right to left, the numbers decrease by 1 each time. The pattern is -1 .

As you look at a column from top to bottom, the numbers increase by 10. The pattern is $+ 10$, so the number in the tens place increases by 1 each time. As you look at a column from bottom to top, the numbers decrease by 10 each time. The pattern is -10 .

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

You can find the same kind of number patterns in greater numbers.

If the pattern is $+100$, the digit in the hundreds place increases by 1 each time. If the pattern is $-1,000$, the digit in the thousands place decreases by 1 each time.

Write the number.

1. 10 more than 417

Hundreds	Tens	Ones
4	1	7

2. 100 less than 854

Hundreds	Tens	Ones
8	5	4

3. 1 less than 602

Hundreds	Tens	Ones
6	0	2

4. 1,000 more than 5,690

Thousands	Hundreds	Tens	Ones
5	6	9	0

Lesson 4 Reteach

Add Mentally

Mental addition is easier if you make one of the addends a ten (10, 20, 30, and so on).

You can use this method to add $49 + 28$ mentally.

49	49 is close to 50. Add 1 to 49. \longrightarrow	50	}	Now you have two numbers that are easy to add.
$+ 28$	Since 1 was added to 49, take 1 away from 28. \longrightarrow	$+ 27$		
		77		

When adding more than two numbers mentally, try to group addends that make a ten.

$$\begin{array}{c}
 4 + 18 + 6 + 1 \\
 \swarrow \quad \searrow \\
 10 + 18 + 1 = 29
 \end{array}$$

You can do this because the Associative Property of Addition says that the way addends are grouped does not affect the sum.

Make a ten to mentally add.

1. $\begin{array}{r} 32 \\ + 65 \\ \hline \end{array}$ + _____

2. $\begin{array}{r} 78 \\ + 15 \\ \hline \end{array}$ + _____

3. $\begin{array}{r} 17 \\ + 44 \\ \hline \end{array}$ + _____

4. $\begin{array}{r} 56 \\ + 22 \\ \hline \end{array}$ + _____

Find each sum mentally.

5. $12 + 6 + 8 =$ _____

6. $7 + 55 + 3 =$ _____

7. $5 + 27 + 15 =$ _____

8. $16 + 31 + 4 =$ _____

9. $39 + 14 + 1 =$ _____

10. $4 + 63 + 5 + 1 =$ _____

Lesson 5 Reteach

Estimate Sums

When the word “about” is used in a problem, you should find an estimate. An estimate is an answer close to the exact answer. When estimating, you can round to the nearest ten, hundred, or thousand.

Estimate: $1,262 + 639$

Round to the nearest hundreds place. Then add.

$$\begin{array}{r} 1,262 + 639 \\ \downarrow \quad \downarrow \\ 1,300 + 600 = 1,900 \end{array}$$

So, $1,262 + 639$ is about 1,900.

Estimate. Round to the indicated place value.

1. $277 + 439$; tens _____
 2. $3,857 + 899$; hundreds _____
 3. $1,295 + 735$; hundreds _____
 4. $689 + 640$; tens _____
 5. $5,633 + 2,821$; tens _____
 6. $574 + 888$; hundreds _____
 7. $5,529 + 3,178$; hundreds _____
 8. $827 + 431$; tens _____
 9. $2,441 + 2,532$; tens _____
 10. $1,348 + 1,498$; hundreds _____
 11. $8,188 + 644$; tens _____
 12. $2,661 + 3,822$; hundreds _____
- 14

Lesson 7 Reteach

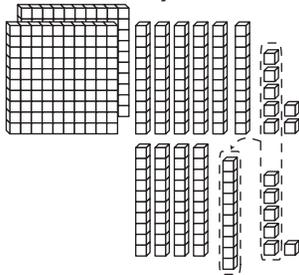
Add Three-Digit Numbers

You can use models to add.

Find $267 + 46$.

Step 1

Add the ones. Regroup if necessary.

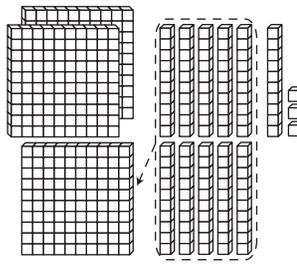


$$\begin{array}{r} 1 \\ 267 \\ + 46 \\ \hline 313 \end{array}$$

Think: 13 ones = 1 ten, 3 ones

Step 2

Add the tens. Regroup if necessary.

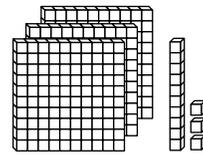


$$\begin{array}{r} 11 \\ 267 \\ + 46 \\ \hline 313 \end{array}$$

Think: 11 tens = 1 hundred, 1 ten

Step 3

Add the hundreds. Regroup if necessary.

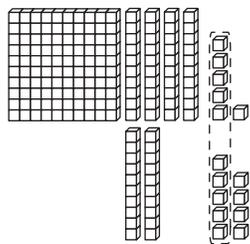


$$\begin{array}{r} 11 \\ 267 \\ + 46 \\ \hline 313 \end{array}$$

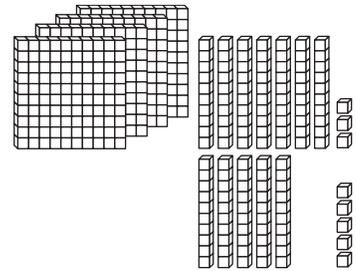
Think: 1 hundred + 2 hundreds = 3 hundreds

Find each sum. Use models to help.

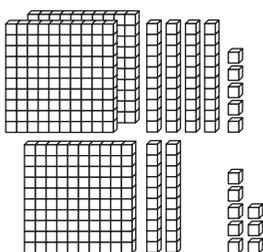
1. $\begin{array}{r} 146 \\ + 29 \\ \hline \end{array}$



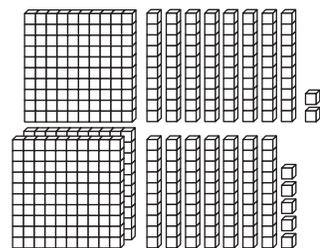
2. $\begin{array}{r} 473 \\ + 55 \\ \hline \end{array}$



3. $\begin{array}{r} 245 \\ + 128 \\ \hline \end{array}$



4. $\begin{array}{r} 182 \\ + 275 \\ \hline \end{array}$



Lesson 8 Reteach

Add Four-Digit Numbers

Adding four-digit numbers is just like adding three-digit numbers.

Read the problem.

One mile is equal to 5,280 feet. Hunter went on a nature hike.

First, he hiked one mile, and then he hiked another 1,323 feet.

How many feet did he hike?

First, estimate to the nearest hundred.

$$\begin{array}{r}
 5,280 \rightarrow \quad \underline{\hspace{2cm}} \\
 + 1,323 \rightarrow \quad \underline{\hspace{2cm}} \\
 \hline
 \end{array}$$

Now, find the exact answer.

Step 1

Add the ones.

$0 + 3 = \underline{\hspace{2cm}}$

Step 2

Add the tens.

$8 + 2 = \underline{\hspace{2cm}}$

Regroup as
1 hundred.

Step 3

Add the hundreds.

$[1] + 2 + 3 = \underline{\hspace{2cm}}$

Step 4

Add the thousands.

$5 + 1 = \underline{\hspace{2cm}}$

So, Hunter hiked
 feet on
the nature hike.

Find each sum. Use estimation to check for reasonableness.

1. $1,349 + 1,223 = \underline{\hspace{2cm}}$ 2. $\$4,828 + \$3,184 = \underline{\hspace{2cm}}$

3. At Cliffside Park, there are 1,121 maple trees and 1,109 beech trees. How many trees are in the park?

4. Selma traveled 1,298 miles last year. She traveled 2,781 miles this year. How many miles has Selma traveled in two years?

Lesson 9 Reteach

Problem Solving: Reasonable Answers

When solving a problem, you should check to make sure that your answer is reasonable.

Use this exercise to learn more about reasonable estimates and answers.

Tristan has \$1,075 in his savings. He wants to go to space camp for \$599 and basketball camp for \$250. Is it reasonable to say that Tristan will have about \$500 left after he pays for camp?

<p>Step 1 Understand</p>	<p>What do you know?</p> <ul style="list-style-type: none"> You know Tristan has \$1,075. You know Tristan will spend \$599 and \$250. <p>What do you need to find?</p> <ul style="list-style-type: none"> You need to find out how much money Tristan will have left.
<p>Step 2 Plan</p>	<p>When you read the problem to find out what information you know, circle key facts or words and underline what you need to find out.</p> <p>You will add to find the total amount of money Tristan spends. Then you will subtract to see how much money he has left.</p>
<p>Step 3 Solve</p>	<p>First add the costs of the camps:</p> $\begin{array}{r} \$599 \\ + \$250 \\ \hline \end{array}$ <p>Subtract the cost of the camps from the amount Tristan started with.</p> <p>To find what is left: $\\$1,075 - \\$849 = \\$226$</p> <p>So, \$500 is not a reasonable estimate.</p>
<p>Step 4 Check</p>	<p>Work backward to check for reasonableness.</p> $\$226 + \$849 = \$1,075$

Lesson 9 Reteach

Problem Solving: Reasonable Answers (continued)

Solve. Use the *reasonable answers* strategy.

- The animal shelter has space for 800 animals. There were already 468 animals at the shelter. After a storm, 192 more animals were rescued and brought to the shelter. Is it reasonable to say the shelter has room for about 100 more animals? Explain.

Is 100 a reasonable estimate? _____

There is room for _____ more animals at the shelter.

- Find the Error:** Elaine jumped rope 175 times without missing, and Trevor jumped rope 10 fewer times than Elaine, without missing. Claire jumped rope 182 times without missing, and Zane jumped rope 153 times without missing. Claire said she and Zane had a higher total number of jumps than Elaine and Trevor. Here is how Claire solved the problem:

Elaine and Trevor: $175 - 10 = 165$

Claire and Zane: $182 + 153 = 335$

- Mrs. Connolly hid 115 prizes around the school. She put 80 prizes inside the building and 35 outside on the playground. Her students have found 67 prizes inside and 18 prizes on the playground. How many total prizes do students still need to find? Is there a greater number of prizes still to be found inside or outside the building?

There are still _____ prizes to be found.

How do you know your answer is reasonable?

There is a greater number of prizes still to be found _____