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Addition and Subtraction

Lesson 1-1

Addition Facts and Subtraction Facts

Rinaldo's goal for this year is to read 12 books. So far, he has read 5 books. How many books must Rinaldo read to reach his goal?

We want to know the number of books Rinaldo must still read to reach his goal.

Rinaldo's goal is to read ____ books.

He has read _____ books so far this year.

To find the number of books he needs to read, we subtract _____ from _____.



Rinaldo needs to read ____ more books this year.

To check the subtraction, add ____ and ____.

7	+ 5	= -	/ - addend
addend	addend	sum	+ 5 ← addend
audenu	addella	Suiii	← sum

The subtraction is correct because 7 + 5 =_____.

7 + 5 = 12 and 12 - 5 = 7 are called **number sentences**.

Getting Started

Complete each number sentence. Check your answer.

5. 11 - 3 = ____ **6.** 13 - 4 = ___ **7.** 5 + 6 = ___ **8.** 9 - 5 = ___

Practice _

$\label{lem:complete} \textbf{Complete each number sentence. Check your answer.}$

Add or subtract.

Problem Solving

Solve each problem.

- 47. Megan bought a wool scarf for \$7 and a pair of mittens for \$6. How much did she spend?
- 48. Butch made 9 sandwiches. His brother ate 7 of them for lunch. How many sandwiches does Butch base left to eat?

Column Addition

The first U.S. astronauts orbited Earth in 1962. How many orbits did these Americans complete in that year?

We want to find the total number of orbits all the astronauts made in 1962.

Orbits by U.S. Astronauts in 1962			
Date	Astronaut	Orbits	
February 20	John Glenn	3	
May 24	Scott Carpenter	3	

October 3 Wally Schirra

We know that Glenn orbited _____ times; Carpenter, ____ times; and Schirra, ____ times.

To find this total or sum, we add _____, ____, and _____.

We can add only two numbers at a time.







American astronauts completed _____ orbits in 1962.

Getting Started

Add down. Add up to check.

1.	1	4. 4	3. 3	· 0	3. /
	3	6	4	3	1
	3 + 5	+ 3	+ 2	+ 1	1 + 7
6.	6	7. 3	8. 5	9. 7	10. 8
	3	2	4	2	1
	2	4	5	3	1 6 2
	+ 4	+ 9	+ 3	5	2
		_		4.1	+ 2

Add down. Add up to check.

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

3.

- 2
- <u> 4</u>
- 10.

- 6. 4
- 7. 1 6 + 3
- 74
- 5
- 5 2

+ 6

1

+ 6 15. 9

- 11. 2 5 + 3
- + 3 17. 1
 - 1
- 18.

13.

19.

14.

20.

59

- +
- It's Algebra

Complete the boxes by adding each number at the top

48

58

to each number on the left. Look for patterns.

- - + 2 6 4 9 19 29 39 49

+	9	7	5
7			
27			
47			
67			
87			

107

Basic Properties. Addition

Finding sums is easy if we remember some important rules.

What do I get when I add O? Order or Commutative Property We can add in any order.

3 + 4 = ____ 4 + 3 = ____



Getting Started ___ Complete each number sentence.

Grouping or Associative Property We can change the grouping. Remember to add the numbers in the parentheses first.

(5+3)+6=1 5+(3+6)=1

___ + 6 = ___ 5 + ___ = ___

1. 5 + 0 = ____ 2. (6 + 3) + 2 = ____ 3. 0 + 9 = ____ 4. 4 + (0 + 6) = ____ 5. (2 + 7) + 0 = ___ 6. 5 + (3 + 5) = ____

10.

11.

Zero or Identity Property Adding zero does not affect the answer. 6 + 0 = ___ 0 + 3 = ___

It's Algebra!

Ts it 3+4 or 4+3?

Add down. Add up to check.