Grade 4 Math

Add and Subtract to 100,000

Break numbers into places, then put the pieces together.

Partial sums and open number lines

Friendly numbers and subtraction across zeros

Two ways to compare, with room to choose

Unknowns, story problems and a self-checking code

12 practice pages and 12 matching answer keys

Georgia's K-12 Mathematics Standards

4.NR.2.1

26 pages | Print at 100% | Answer keys included

TOUCHSTONE STANDARDS

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Georgia's K-12 Mathematics Standards

4.NR.2
Using part-whole strategies, solve problems involving addition and subtraction through the hundred-thousands place, as well as multiplication and division of multi-digit whole numbers presented in real-life, mathematical situations.

4.NR.2.1
Fluently add and subtract multi-digit numbers to solve practical, mathematical problems using place value understanding, properties of operations, and relationships between operations.

Strategy choice: GaDOE note (p3) and appendix (p123)
These standards preserve and affirm local control and flexibility regarding the use of the "standard algorithm" and other mathematical strategies and methods. Students have the right to use any strategy that produces accurate computations, makes sense, and is appropriate for their level of understanding.

Therefore, the wording of these standards allows for the "standard algorithm" as well as other cognitive strategies deemed developmentally appropriate for each grade level. Revised state tests will not measure the students' use of specific mathematical strategies and methods, only whether students understand the key mathematical skills and concepts in these standards.

Specific mathematics strategies for teaching and learning are not mandated by the Georgia Department of Education or assessed on state or federally mandated tests.

Page map: all practice is 4.NR.2.1

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Teaching notes

Any correct strategy earns full credit.

Efficiency does not mean students should be timed.

Primary tasks: 24 with regrouping and 2 without; select-all also checks related sentences.

p3 to p7 model optional strategies; students may use another correct method.

p8 compares two addition methods. Its carry row and six columns allow 100,000.

Open number-line jumps are not drawn to scale.

Answers without commas are also correct.

Follow Touchstone Standards on TPT for new Grade 4 resources. After use, an honest review helps us improve.

Print at 100%. This bar must measure 2 inches.



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Add by Place

Name _____ Print at 100%

Try place sums, or use any strategy you like.

Strategy Spotlight

21,634 + 32,512 = ?

20,000 + 30,000 = 50,000

1,000 + 2,000 = 3,000

600 + 500 = 1,100

30 + 10 = 40

4 + 2 = 6

50,000 + 3,000 + 1,100 + 40 + 6 = 54,146

1 26,485 + 31,729 = ?

Ten thousands	
Thousands	
Hundreds	
Tens	
Ones	
Sum	

2 48,362 + 15,684 = ?

Ten thousands	
Thousands	
Hundreds	
Tens	
Ones	
Sum	

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Answer Key: Add by Place

Name _____ Print at 100%

Try place sums, or use any strategy you like.

Strategy Spotlight

21,634 + 32,512 = ?

20,000 + 30,000 = 50,000
1,000 + 2,000 = 3,000
600 + 500 = 1,100
30 + 10 = 40
4 + 2 = 6
50,000 + 3,000 + 1,100 + 40 + 6 = 54,146

1 26,485 + 31,729 = ?

Ten thousands	**50,000**
Thousands	**7,000**
Hundreds	**1,100**
Tens	**100**
Ones	**14**
Sum	**58,214**

20,000 + 30,000 = 50,000
6,000 + 1,000 = 7,000
400 + 700 = 1,100
80 + 20 = 100
5 + 9 = 14
50,000 + 7,000 + 1,100 + 100 + 14 = 58,214

2 48,362 + 15,684 = ?

Ten thousands	**50,000**
Thousands	**13,000**
Hundreds	**900**
Tens	**140**
Ones	**6**
Sum	**64,046**

40,000 + 10,000 = 50,000
8,000 + 5,000 = 13,000
300 + 600 = 900
60 + 80 = 140
2 + 4 = 6
50,000 + 13,000 + 900 + 140 + 6 = 64,046

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Two Ways, Same Answer

Name _____ Print at 100%

Compare the two layouts; use either or another correct strategy.

Strategy Spotlight

35,678 + 24,659 = ?

30,000 + 20,000 = 50,000
5,000 + 4,000 = 9,000
600 + 600 = 1,200
70 + 50 = 120
8 + 9 = 17
50,000 + 9,000 + 1,200 + 120 + 17 = 60,337

1 48,765 + 51,235 = ?

Place sums

_____

_____

Which way would you choose? Why?

_____

_____

Column method

	HTh	TTh	Th	H	T	O
		4	8	7	6	5
+		5	1	2	3	5

2 26,847 + 17,586 = ?

Place sums

_____

_____

Which way would you choose? Why?

_____

_____

Column method

	HTh	TTh	Th	H	T	O
		2	6	8	4	7
+		1	7	5	8	6

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Answer Key: Two Ways, Same Answer

Name _____ Print at 100%

Compare the two layouts; use either or another correct strategy.

Strategy Spotlight

35,678 + 24,659 = ?

30,000 + 20,000 = 50,000
5,000 + 4,000 = 9,000
600 + 600 = 1,200
70 + 50 = 120
8 + 9 = 17
50,000 + 9,000 + 1,200 + 120 + 17 = 60,337

1 48,765 + 51,235 = ?

Place sums

40,000 + 50,000 = 90,000
8,000 + 1,000 = 9,000
700 + 200 = 900
60 + 30 = 90
5 + 5 = 10
90,000 + 9,000 + 900 + 90 + 10 = 100,000

Which way would you choose? Why?

Answers vary. Both ways give the same sum.

Column method

	HTh	TTh	Th	H	T	O
	1	1	1	1	1	
		4	8	7	6	5
+		5	1	2	3	5
	1	0	0	0	0	0

2 26,847 + 17,586 = ?

Place sums

20,000 + 10,000 = 30,000
6,000 + 7,000 = 13,000
800 + 500 = 1,300
40 + 80 = 120
7 + 6 = 13
30,000 + 13,000 + 1,300 + 120 + 13 = 44,433

Which way would you choose? Why?

Answers vary. Both ways give the same sum.

Column method

	HTh	TTh	Th	H	T	O
		1	1	1	1	
		2	6	8	4	7
+		1	7	5	8	6
		4	4	4	3	3

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