Adding to One Billion

Grade 6 Math | Version B | ANSWER KEY | Side 1

Name: _____ Date: _____

1. Start on the right (the ones).
2. 10 or more? Carry the 1 to a ☆
3. Add the carry in the next column.
4. Last carry goes in the gold box.

A Warm-up Add. Carry the 1 to a ☆

1 468 799 + 232 324 = 701 123

	MILL.	THOUSANDS			ONES		
	O	H	T	O	H	T	O
carry		1	1	1	1	1	
		4	6	8	7	9	9
+		2	3	2	3	2	4
=		7	0	1	1	2	3

2 5 739 144 + 2 798 597 = 8 537 741

	MILLIONS		THOUSANDS			ONES		
	T	O	H	T	O	H	T	O
carry	1	1	1		1	1		
	5	7	3	9	1	4	4	
+	2	7	9	8	5	9	7	
=	8	5	3	7	7	4	1	

B Add to one billion Add. Carry the 1 to a ☆

3

105 449 988
+ 751 310 425
= 856 760 413 4 carries

	BILL.	MILLIONS			THOUSANDS			ONES		
	O	H	T	O	H	T	O	H	T	O
carry					1	1		1	1	
	1	0	5	4	4	9	9	8	8	
+	7	5	1	3	1	0	4	2	5	
=	8	5	6	7	6	0	4	1	3	

4

109 094 108
+ 393 929 992
= 503 024 100 8 carries

	BILL.	MILLIONS			THOUSANDS			ONES		
	O	H	T	O	H	T	O	H	T	O
carry	1	1	1	1	1	1	1	1		
	1	0	9	0	9	4	1	0	8	
+	3	9	3	9	2	9	9	9	2	
=	5	0	3	0	2	4	1	0	0	

Adding to One Billion Grade 6 | Version B | Side 2 ANSWER KEY

B Add to one billion (keep going) Add. Carry the 1 to a ☆

5

726 342 794
+ 273 657 206
= 1 000 000 000 9 carries (1 in gold box)

	BILL.	MILLIONS			THOUSANDS			ONES		
	O	H	T	O	H	T	O	H	T	O
carry		1	1	1	1	1	1	1	1	
		7	2	6	3	4	2	7	9	4
+		2	7	3	6	5	7	2	0	6
=	1	0	0	0	0	0	0	0	0	0

6

555 357 464
+ 457 523 928
= 1 012 881 392 6 carries (1 in gold box)

	BILL.	MILLIONS			THOUSANDS			ONES		
	O	H	T	O	H	T	O	H	T	O
carry		1	1	☆	1	1	1	☆	1	
		5	5	5	3	5	7	4	6	4
+		4	5	7	5	2	3	9	2	8
=	1	0	1	2	8	8	1	3	9	2

C Show what you know Read. Then add.

7

Max forgot to carry!

1. Write the carries in the ☆
2. Write the right answer.

Right answer: 954 430 217

Max wrote 844 329 107. He missed 7 carries.

	BILL.	MILLIONS			THOUSANDS			ONES		
	O	H	T	O	H	T	O	H	T	O
carry		1	1	☆	1	1	1	1	1	
		5	8	5	2	8	5	3	7	9
+		3	6	9	1	4	4	8	3	8
=		~~8~~ 9	~~4~~ 5	4	~~3~~ 4	~~2~~ 3	~~9~~ 0	~~1~~ 2	~~0~~ 1	7

8

A video got **166 769 127** views last year.
This year it got **995 746 909** views.
How many views in all?
Write the numbers in the boxes. Add.

Answer: 1 162 516 036 views

More than one billion? (yes) / no

	BILL.	MILLIONS			THOUSANDS			ONES		
	O	H	T	O	H	T	O	H	T	O
carry		1	1	1	1	1	1	☆	1	
		1	6	6	7	6	9	1	2	7
+		9	9	5	7	4	6	9	0	9
=	1	1	6	2	5	1	6	0	3	6

Scoring: 2 points each (1 for the carries, 1 for the answer). Total 16.
Emerging 0 to 6 **Developing** 7 to 11 **Proficient** 12 to 14 **Extending** 15 to 16

Adding to One Billion: Teacher Notes

Grade 6 Math | Version B | Answer key and scoring

BC Math 6 content: small to large numbers (thousandths to billions); operations with thousandths to billions.
Competency: Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving.
Big idea: Computational fluency develops from a strong sense of number.

Give it

- Print double-sided (1 sheet). About 30 to 40 min.
- Read the 4 steps and the word problem aloud.
- No calculators. Same grid as the Carry Collector mats.

Score it (2 points each, total 16)

Emerging	0 to 6
Developing	7 to 11
Proficient	12 to 14
Extending	15 to 16

1 point for the carries, 1 point for the answer.

Answers at a glance

#	Part	Question	Answer	Carries	Gold box?
1	A	468 799 + 232 324	**701 123**	5	no
2	A	5 739 144 + 2 798 597	**8 537 741**	5	no
3	B	105 449 988 + 751 310 425	**856 760 413**	4	no
4	B	109 094 108 + 393 929 992	**503 024 100**	8	no
5	B	726 342 794 + 273 657 206	**1 000 000 000**	9	yes
6	B	555 357 464 + 457 523 928	**1 012 881 392**	6	yes
7	C (find the mistake)	585 285 379 + 369 144 838	**954 430 217**	7	no
8	C (word problem)	166 769 127 + 995 746 909	**1 162 516 036**	8	yes

Look-fors

- Forgets to add the carried 1 to the next column
- Writes 2 digits in one box (no carry)
- Misses the last carry (gold box empty)
- Word problem: lines numbers up on the left, not the ones

Next steps

- **Emerging / Developing:** small group, Carry Collector Thousands mat, then Millions.
- **Proficient:** more Carry Collector rounds at their level.
- **Extending:** add 3 numbers, or read each answer aloud by periods.