HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 4 · LESSON 3

Adding and Subtracting Big Numbers



VIRGINIA SOL (2023)
4.CE.1

VIDEO LENGTH
5:19 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-4#G4-03

PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

4.CE.1 The student will estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition and subtraction with whole numbers.

Materials: Grid paper to keep columns lined up, place-value charts.

Students will

- Add multi-digit whole numbers, regrouping in any column.
- Subtract multi-digit whole numbers, including across zeros.
- Check subtraction with addition.
- Estimate to see if an answer makes sense.

Key words

regroup	trade ten of one place for one of the next place (carry or borrow)
sum	the answer to an addition problem
difference	the answer to a subtraction problem
inverse operations	addition and subtraction undo each other

Before the video 2 minutes

Write 4,000 - 1. Ask: “What is the answer? What happens to all the zeros when we subtract?”

What happens in the video

0:00	Welcome and today's goal: adding and subtracting big numbers
0:20	46,385 + 27,149: carrying column by column
0:47	52,000 - 18,465: regrouping across zeros
1:10	Checking subtraction with addition
1:27	Spot the mistake: forgetting to carry
1:56	Your turn! Students answer during each pause (see below)
4:58	Recap and goodbye

Spot the mistake at 1:27

> **Sam:** Three thousand, six hundred seventy-five, plus two thousand, four hundred fifty-eight. Five thousand, twenty-three!
> **Ivy:** Hmm… did you carry the extra tens?
> **Mia:** Five plus eight is thirteen. Write three, carry one! Do that in every column. Six thousand, one hundred thirty-three!
> **Sam:** Oops! I forgot to carry. Six thousand, one hundred thirty-three!

- Ask: “What do we do when a column adds to 10 or more?” (Write the ones digit, carry the rest.)
- Redo 3,675 + 2,458 column by column, saying the carries out loud.
- Estimate first: about 4,000 + 2,000 = 6,000, so 5,023 is too small.

Your-turn pauses students answer out loud, then the characters give the answer

TIME	QUESTION	ANSWER IN THE VIDEO
1:57	Twelve thousand, three hundred forty-five, plus twenty-three thousand, four hundred twenty-one.	Thirty-five thousand, seven hundred sixty-six!
2:17	Eight thousand, minus three thousand, two hundred fifty.	Four thousand, seven hundred fifty!
2:34	Forty-five thousand, six hundred seventy-eight, plus thirty-one thousand, two hundred five.	Seventy-six thousand, eight hundred eighty-three!
2:54	Sixty thousand, five hundred, minus twenty-four thousand, three hundred.	Thirty-six thousand, two hundred!
3:12	One hundred twenty-five thousand, plus two hundred fifty thousand.	Three hundred seventy-five thousand!
3:29	Nine thousand, four hundred thirty-seven, minus two thousand, five hundred nineteen.	Six thousand, nine hundred eighteen!
3:48	Thirty-eight thousand, fifty-six, plus seventeen thousand, nine hundred sixty-eight.	Fifty-six thousand, twenty-four!
4:07	One hundred thousand, minus forty-five thousand.	Fifty-five thousand!
4:22	Seven thousand, eight hundred, plus four thousand, six hundred.	Twelve thousand, four hundred!
4:39	Seventy-two thousand, three hundred fifteen, minus forty-eight thousand, two hundred seven.	Twenty-four thousand, one hundred eight!

Tip: pause the video a little longer on any question your class finds hard, and ask a student to explain how they know.

After the video: talk about it

1. Why does regrouping across zeros turn the zeros into nines?
2. How can addition check a subtraction answer?
3. How does an estimate help you catch a mistake?

Go further

Budget planner: give students a pretend budget of $100,000 and a price list; they choose items, add the costs, and subtract to find what is left.

Answer key for the practice page

1. 55,877
2. 76,325
3. 36,544
4. 43,435
5. 224,100
6. 14,155 empty seats (check: 37,845 + 14,155 = 52,000).

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Adding and Subtracting Big Numbers

Name: _____ **Date:** _____

1. **34,562 + 21,315 =**

   Answer: _____

2. **47,806 + 28,519 =**

   Answer: _____

3. **60,000 - 23,456 =**

   Answer: _____

4. **85,302 - 41,867 =**

   Answer: _____

5. **125,400 + 98,700 =**

   Answer: _____

6. **A stadium has 52,000 seats. 37,845 are filled. How many are empty? Check with addition.**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-4#G4-03
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**