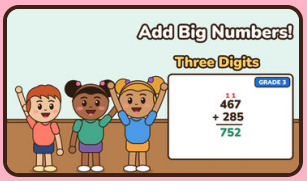
HAKILLO KIDS · TEACHER GUIDE · COMMON CORE EDITION · GRADE 3 · LESSON 3

Adding Three-Digit Numbers



COMMON CORE
3.NBT.A.2

VIDEO LENGTH
4:25 · Virginia SOL edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-3#G3-03

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

3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

Materials: Base-ten blocks, place-value mats, grid paper to keep columns lined up.

Students will

- Line up hundreds, tens and ones before adding.
- Add three-digit numbers, starting with the ones.
- Regroup ten ones as one ten and ten tens as one hundred.
- Check a sum with an estimate.

Key words

sum	the answer to an addition problem
line up the places	write ones under ones, tens under tens and hundreds under hundreds
regroup	trade ten ones for one ten, or ten tens for one hundred (also called carrying)
estimate	a close answer found with rounded numbers, used to check

Before the video 2 minutes

Show 2 flats, 5 rods and 8 cubes, and 1 flat, 3 rods and 6 cubes. Ask: “How many in all? What do we do when we have more than 9 cubes?”

What happens in the video

0:00	Welcome and today's goal: adding three-digit numbers
0:21	324 + 153 with no regrouping: ones, tens, then hundreds
0:40	258 + 136: regrouping ten ones into one ten
1:04	467 + 285: regrouping ones and tens
1:29	Checking 752 with an estimate: about 500 + 300
1:47	Spot the mistake: lining up 72 under the hundreds
2:16	Your turn! Students answer during each pause (see below)
4:05	Recap and goodbye

Spot the mistake at 1:47

> **Sam:** One hundred sixty-five plus seventy-two. I'll line up the seven under the one. Eight hundred eighty-five!
> **Ivy:** Hmm... is seventy-two in the hundreds?
> **Mia:** Seventy-two has no hundreds! The seven goes under the tens, and the two under the ones. Two hundred thirty-seven.
> **Sam:** Oops! Line up the places from the right! Two hundred thirty-seven!

- Ask: “How many hundreds are in 72?” (None.) “So where should the 7 go?” (Under the tens.)
- Rewrite 165 + 72 on grid paper with the numbers lined up from the right, then add.
- Estimate first: 165 is about 200 and 72 is about 100, so the sum should be about 300, not 885.

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

TIME	QUESTION	ANSWER IN THE VIDEO
2:17	Two hundred thirty-one plus four hundred fifty-six?	Six hundred eighty-seven!
2:31	One hundred forty-seven plus two hundred twenty-five?	Three hundred seventy-two! Carry one ten.
2:46	Three hundred sixty plus two hundred seventy?	Six hundred thirty! Carry one hundred.
2:59	Five hundred eighteen plus one hundred twenty-nine?	Six hundred forty-seven!
3:13	Two hundred seventy-six plus three hundred forty-eight?	Six hundred twenty-four!
3:26	Four hundred five plus three hundred ninety?	Seven hundred ninety-five!
3:39	Three hundred eighty-eight plus one hundred twelve?	Five hundred! Lots of regrouping!
3:53	Six hundred forty-three plus two hundred nineteen?	Eight hundred sixty-two!

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 do we start adding with the ones and not the hundreds?
2. When do you need to regroup? Give an example of a sum that needs it and one that does not.
3. How does an estimate help you catch a mistake?

Go further

Make it, then add it: students roll three dice to build two three-digit numbers, add them, and check with an estimate. Who can make a sum closest to 1,000 without going over?

Answer key for the practice page

1. 767
2. 384
3. 736
4. 636
5. 584
6. 634 books (estimate: 400 + 300 = 700, or 360 + 280 = 640).

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HAKILLO KIDS · GRADE 3 · LESSON 3 · PRACTICE

Adding Three-Digit Numbers

Name: _____ **Date:** _____

1. **425 + 342 =**

   Answer: _____

2. **236 + 148 =**

   Answer: _____

3. **471 + 265 =**

   Answer: _____

4. **389 + 247 =**

   Answer: _____

5. **508 + 76 = (line up the places first)**

   Answer: _____

6. **A school has 356 books in one room and 278 in another. How many books in all? Estimate to check.**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-3#G3-03
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**