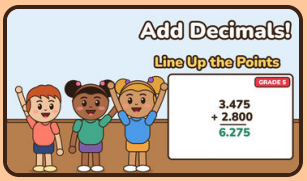
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 5 · LESSON 3

Adding and Subtracting Decimals



VIRGINIA SOL (2023)
5.CE.3

VIDEO LENGTH
4:47 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-5#G5-03

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

5.CE.3 The student will estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition, subtraction, multiplication, and division with decimal numbers.

Materials: Grid paper, play money, place-value charts.

Students will

- Add and subtract decimals to thousandths.
- Line up decimal points and fill empty places with zeros.
- Subtract decimals from whole numbers by regrouping across zeros.
- Estimate to check that an answer makes sense.

Key words

line up the decimal points	keep the points in one column
placeholder zero	a zero added so every column has a digit
regroup	trade between places, as with whole numbers
estimate	a close answer used to check

Before the video 2 minutes

Ask: “How much is $4.20 + $1.05? How did you line up the amounts?”

What happens in the video

0:00	Welcome and today's goal: adding and subtracting decimals
0:21	3.475 + 2.8: write 2.800 and add
0:44	6 - 2.45: write 6.00 and regroup across zeros
1:01	Estimate to check: about 3.5 + 3 = 6.5
1:21	Spot the mistake: lining up the last digits instead of the points
1:48	Your turn! Students answer during each pause (see below)
4:26	Recap and goodbye

Spot the mistake at 1:21

> **Sam:** Four point two, plus one point zero five. I'll line up the last digits. One point four seven!
> **Ivy:** Hmm... are the decimal points lined up?
> **Mia:** Line up the points! Four point two zero, plus one point zero five. That's five point two five.
> **Sam:** Oops! Points in a line. Five point two five!

- Ask: “What should be lined up?” (The decimal points.)
- Rewrite 4.2 + 1.05 as 4.20 + 1.05 on grid paper.
- Estimate first: about 4 + 1 = 5, so 1.47 is far off.

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

TIME	QUESTION	ANSWER IN THE VIDEO
1:49	Two point four five, plus one point three seven.	Three point eight two!
2:05	Five point six, minus two point three five.	Three point two five!
2:20	Zero point three seven five, plus zero point one two five.	Zero point five!
2:37	Four, minus one point two.	Two point eight!
2:52	Six point zero eight, plus three point nine five.	Ten point zero three!
3:07	Seven point two five, minus four point five.	Two point seven five!
3:23	One point zero zero five, plus two point one.	Three point one zero five!
3:40	Ten, minus three point seven five.	Six point two five!
3:55	Eight point four, plus zero point six.	Nine! Nine point zero.
4:10	Two point five, minus zero point zero two five.	Two point four seven five!

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 writing 6 as 6.00 help when subtracting 2.45?
2. How does an estimate catch a misplaced decimal point?
3. Where do you add or subtract decimals outside of school?

Go further

Track meet: students add relay split times (to thousandths of a second) and find how much faster one team was than another.

Answer key for the practice page

1. 6.86
2. 3.75
3. 1 (1.000)
4. 6.4
5. 6.18
6. $4.85 ($6.75 + $8.40 = $15.15; $20.00 - $15.15 = $4.85)

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HAKILLO KIDS · GRADE 5 · LESSON 3 · PRACTICE

Adding and Subtracting Decimals

Name: _____ **Date:** _____

1. **4.56 + 2.3 =**

   Answer: _____

2. **7.2 - 3.45 =**

   Answer: _____

3. **0.625 + 0.375 =**

   Answer: _____

4. **9 - 2.6 =**

   Answer: _____

5. **12.08 - 5.9 =**

   Answer: _____

6. **Sam has $20.00. He buys a book for $6.75 and a game for $8.40. How much money is left?**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-5#G5-03
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**