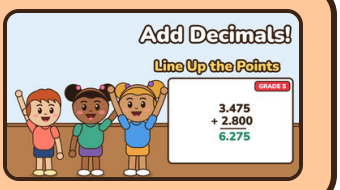
HAKILLO KIDS · TEACHER GUIDE · COMMON CORE EDITION · GRADE 5 · LESSON 3

Adding and Subtracting Decimals



COMMON CORE
5.NBT.B.7

VIDEO LENGTH
4:47 · Virginia SOL 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.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

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**