Adding Decimals

Grades 4-5 · Decimals unit, lesson 3 of 8 · Free lesson

In this pack: page 1 teacher guide · page 2 task cards (cut apart) · page 3 practice · page 4 answer key.

Common Core Standard: 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.

OVERVIEW

Adding decimals looks like whole-number addition, and that is exactly the danger: pupils import whole-number habits, line up from the right edge, and let digits drift into the wrong places. This lesson makes the column method a place value story instead of a ritual. The hundredths grid shows why the points must line up (tenths can only join tenths), and regrouping is taught as renaming: 10 hundredths become 1 tenth, the amount unchanged. Money carries the opening because every pupil already believes $0.45 + $0.38 is a real question with a checkable answer.

MATERIALS

- Printed task cards (page 2 of this worksheet) and scissors for each pair
- Hundredths grids pupils can shade, plus small whiteboards for the column practice
- The practice page (page 3) and pencils. Play money helps the pupils who are still shaky on hundredths

DIRECTIONS

1. Teach the lesson slides first, pausing on the two We Do problems so pairs can call out each column before the reveal.
2. Hand out the task cards. Pairs cut them apart and solve all eight, drawing each pair on one grid before writing the sum.
3. Set the practice page. Pupils must write the annexed zero wherever a decimal needs one in Part B: no zero shown, no mark given.
4. Mark together from the answer key on page 4, then give the exit ticket from the final slides.

EVIDENCE OF LEARNING

Success looks like this: the pupil lines up the points unprompted, annexes zeros where needed, regroups 10 hundredths into 1 tenth while saying what they are doing, and estimates the size of the answer.

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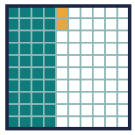
Task Cards: Cut Apart and Solve

Cut along the dashed lines. For each card, count both amounts together in hundredths, regroup when a column passes 9, and write the sum on the back.

Card 1



0.35



0.42

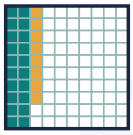
Add the two amounts. Write the sum.

_____ **Answer:** _____

Card 2



0.56

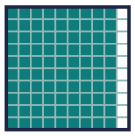


0.28

Add the two amounts. Watch the hundredths column.

_____ **Answer:** _____

Card 3



0.9



0.47

Add the two amounts. This sum crosses a whole.

_____ **Answer:** _____

Card 4



0.64

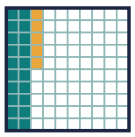


0.64

Add the two amounts. Write the sum.

_____ **Answer:** _____

Card 5



0.25

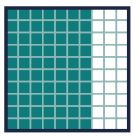


0.58

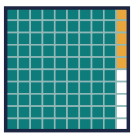
Add the two amounts. Write the sum.

_____ **Answer:** _____

Card 6



0.7



0.95

Add the two amounts. Annex a zero where you need one.

_____ **Answer:** _____

Card 7



0.38

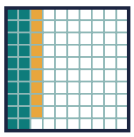


0.46

Add the two amounts. Watch the hundredths column.

_____ **Answer:** _____

Card 8



0.29



0.53

Add the two amounts. Write the sum.

_____ **Answer:** _____

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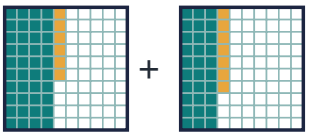
Adding Decimals

Name: _____ Date: _____ Class: _____

Part A - Grid and Add

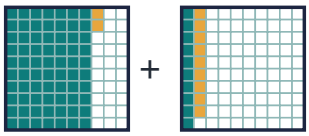
Both addends are shaded. Count them together and write the sum.

1. 0.46 + 0.37



Sum: _____

2. 0.72 + 0.19



Sum: _____

Part B - Column Adds

Line up the points. Annex zeros where a decimal needs one.

1. 3.84 + 2.15 = _____
2. 5.6 + 1.47 = _____
3. 0.95 + 0.6 = _____
4. 12.08 + 3.92 = _____

Part C - Word Problems

Use the sentence frame below to explain your thinking.

1. Two ribbons are laid end to end. One is 1.35 m long and the other is 2.5 m long. How long are they together?

_____

_____

Answer: _____ m

2. Amir has $4.65 in his wallet. He earns $3.80 washing cars. How much money does he have now?

_____

Answer: $_____

Say it like a mathematician:
I lined up the decimal points and annexed zeros. _____ hundredths regrouped into _____ tenth, so the sum is _____.

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Answer Key - Adding Decimals

Task Cards

1. 0.77.
2. 0.84 (14 hundredths regroup into 1 tenth and 4).
3. 1.37 (annex first: 0.90 + 0.47).
4. 1.28.
5. 0.83.
6. 1.65 (annex first: 0.70 + 0.95).
7. 0.84.
8. 0.82.

Part A - Grid and Add

1. 0.83 (46 + 37 hundredths, and 13 hundredths regroup).
2. 0.91 (72 + 19 hundredths).

Part B - Column Adds

1. 5.99.
2. 7.07 (annex first: 5.60 + 1.47).
3. 1.55 (annex first: 0.95 + 0.60).
4. 16.00 (the regroups cascade through every column).

Part C - Word Problems

1. 3.85 m (1.35 + 2.50).
2. $8.45 ($4.65 + $3.80, and the 14 tenths regroup).

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