LESSON MAKER PRO

Decimal Place Moves

Add and subtract by lining up place values.

GRADE 5 · 5.NOS.B.6.c

5.NOS.B.6.c "Use an algorithm to add and subtract decimals."

NAME _____ DATE _____

LINE UP THE DECIMALS

Line up decimal points so digits with the same place value are in the same column. Write zeros in empty decimal places when needed. Add or subtract from right to left, regrouping as needed, and keep the decimal point in line.

WORKED EXAMPLE

Find 4.68 + 2.57.

1. Line up the decimal points: 4.68 + 2.57.
2. Hundredths: 8 + 7 = 15. Write 5 and carry 1 tenth.
3. Tenths: 6 + 5 + 1 = 12. Write 2 and carry 1 one.
4. Ones: 4 + 2 + 1 = 7.

Answer: 7.25

PRACTICE 6 problems

1 Find 12.36 + 5.49.

ANSWER _____

2 Find 9.8 - 3.46.

ANSWER _____

3 Find 0.735 + 1.086.

ANSWER _____

4 Find 15.02 - 7.68.

ANSWER _____

5 Find 6.4 + 2.075.

ANSWER _____

6 Find 20 - 8.937.

ANSWER _____

APPLY IT Show your work

1 You bike 2.75 km to a skate park, then 1.68 km to a library. How far do you bike in all?

WORK SPACE

ANSWER _____

2 You have $20.00. You buy a game pass for $8.75 and a sticker for $3.48. How much money do you have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Calculate 14.2 - (3.785 + 4.96). Show both calculations and explain in one sentence how zeros help you line up the decimal places.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Place Moves

GRADE 5 · 5.NOS.B.6.c

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 12.36 + 5.49.	**17.85**
2	Find 9.8 - 3.46.	**6.34**
3	Find 0.735 + 1.086.	**1.821**
4	Find 15.02 - 7.68.	**7.34**
5	Find 6.4 + 2.075.	**8.475**
6	Find 20 - 8.937.	**11.063**

PART 2 · APPLY IT

1. **4.43 km** Add the two distances: 2.75 + 1.68 = 4.43 km.
2. **$7.77** The purchases cost $8.75 + $3.48 = $12.23. Subtract from $20.00 to get $7.77.

CHALLENGE

3.785 + 4.960 = 8.745; 14.200 - 8.745 = 5.455. Zeros hold empty decimal places so digits in the same place line up.

Accept equivalent decimal forms, such as 7.250 instead of 7.25. In the challenge, students may add zeros in different places as long as both calculations and the explanation are correct.