LESSON MAKER PRO

Decimal Detectives

Add, subtract, and check using place value.

GRADE 5 · 5.NOS.B.6.b

5.NOS.B.6.b "Use concrete models, drawings, strategies based on place value (e.g., partial sums), properties of operations and/or the inverse relationship between addition and subtraction to add and subtract decimals."

NAME _____ DATE _____

MATCH THE PLACES

Line up decimal points so you add or subtract digits with the same place value. Regroup when needed, and write a zero in an empty place if it helps.

WORKED EXAMPLE

Find 4.36 + 2.27 using partial sums.

1. Add the ones: 4 + 2 = 6.
2. Add the tenths: 0.3 + 0.2 = 0.5.
3. Add the hundredths: 0.06 + 0.07 = 0.13.
4. Combine the sums: 6 + 0.5 + 0.13 = 6.63.

Answer: 6.63

PRACTICE 6 problems

1 Find 3.48 + 2.35.

ANSWER _____

2 Find 8.62 - 3.27.

ANSWER _____

3 Find the missing number: ___ + 1.59 = 2.35.

ANSWER _____

4 Find 10.4 - 6.78.

ANSWER _____

5 Find 5.07 + 0.86.

ANSWER _____

6 Find 12.03 - 4.8.

ANSWER _____

APPLY IT Show your work

1 You bring $18.75 to a school fair. You spend $6.89 on a game and $3.45 on snacks. How much money do you have left?

WORK SPACE

ANSWER _____

2 A tablet has 3.5 GB of free space. Two games need 1.85 GB and 0.76 GB. How much free space will remain after both games are installed?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A craft club has 15.00 meters of ribbon. The club uses 3.78 meters for one project and 4.65 meters for another. How much ribbon remains? Show two different ways to find the answer.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Detectives

GRADE 5 · 5.NOS.B.6.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 3.48 + 2.35.	**5.83**
2	Find 8.62 - 3.27.	**5.35**
3	Find the missing number: ___ + 1.59 = 2.35.	**0.76**
4	Find 10.4 - 6.78.	**3.62**
5	Find 5.07 + 0.86.	**5.93**
6	Find 12.03 - 4.8.	**7.23**

PART 2 · APPLY IT

1. **$8.41** The purchases cost $6.89 + $3.45 = $10.34. Subtract $10.34 from $18.75 to get $8.41.
2. **0.89 GB** The games need 1.85 + 0.76 = 2.61 GB. Subtract 2.61 GB from 3.50 GB to get 0.89 GB.

CHALLENGE

6.57 meters. One way: 3.78 + 4.65 = 8.43, then 15.00 - 8.43 = 6.57. Another way: 15.00 - 3.78 = 11.22, then 11.22 - 4.65 = 6.57.

Accept equivalent decimal forms, such as 0.76 and .76. For the challenge, accept any two correct methods that show how both lengths used are subtracted from the starting length.