LESSON MAKER PRO

Decimal Detective

Add and subtract decimals to hundredths.

GRADE 5 · 5.NBT.B.8

5.NBT.B.8 "Add, subtract, multiply, and divide decimals to hundredths using strategies based on place value, properties of operations, and/or the relationships between addition/subtraction and multiplication/division..."

NAME _____ DATE _____

MATCH THE PLACES

Line up decimal points so tenths match tenths and hundredths match hundredths. When needed, trade 10 hundredths for 1 tenth, or 1 tenth for 10 hundredths.

WORKED EXAMPLE

Use the strip to find 0.36 + 0.27.

Total	0.36	0.27	] ?

1. 6 hundredths + 7 hundredths = 13 hundredths.
2. Trade 10 hundredths for 1 tenth.
3. 3 tenths + 2 tenths + 1 tenth = 6 tenths.

Answer: 0.63

PRACTICE 4 problems

1 Find 1.48 + 0.35.

ANSWER _____

2 Find 2.70 - 0.86.

ANSWER _____

3 Find 3.09 + 1.76.

ANSWER _____

4 Find 5.42 - 2.58.

ANSWER _____

APPLY IT Show your work

1 A game update needs 1.75 GB of space. Your tablet has 3.20 GB free. How much space will be left?

WORK SPACE

ANSWER _____

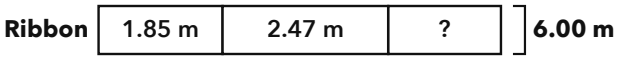
2 At a school fair, a sticker costs $0.85 and a snack costs $1.65. What is their total cost?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The art club has 6.00 m of ribbon. It cuts 1.85 m and 2.47 m. Use the strip to find what is left. Write an equation and explain one regrouping.



WORK SPACE AND ANSWER

ANSWER KEY

Decimal Detective

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 1.48 + 0.35.	**1.83**
2	Find 2.70 - 0.86.	**1.84**
3	Find 3.09 + 1.76.	**4.85**
4	Find 5.42 - 2.58.	**2.84**

PART 2 · APPLY IT

1. **1.45 GB** Subtract 1.75 from 3.20 to get 1.45 GB.
2. **$2.50** Add $0.85 and $1.65 to get $2.50.

CHALLENGE

1.68 m. 6.00 - (1.85 + 2.47) = 1.68. To subtract 4.32 from 6.00, regroup 6.00 as 5 ones, 9 tenths, and 10 hundredths.

Accept equivalent equations and other correct place-value regrouping explanations for the challenge.