LESSON MAKER PRO

Place Value Power

Line up place values to add and subtract.

GRADE 4 · 4.NBT.B.10

4.NBT.B.10 "Use place value strategies to fluently add and subtract multi-digit whole numbers and connect strategies to the standard algorithm."

NAME _____ DATE _____

TRADE BY PLACE

Line up digits with the same place value, then work from right to left. When adding, trade 10 of one place for 1 of the next larger place. When subtracting, trade 1 of a larger place for 10 of the next smaller place.

WORKED EXAMPLE

Find 46,827 + 28,596.

1. Ones: 7 + 6 = 13. Write 3 and carry 1 ten.
2. Tens: 2 + 9 + 1 = 12. Write 2 and carry 1 hundred.
3. Hundreds: 8 + 5 + 1 = 14. Write 4 and carry 1 thousand.
4. Thousands: 6 + 8 + 1 = 15. Write 5 and carry 1 ten-thousand. Ten-thousands: 4 + 2 + 1 = 7.

Answer: 75,423

PRACTICE 6 problems

1 Find 38,475 + 24,368.

ANSWER _____

2 Find 67,208 + 15,794.

ANSWER _____

3 Find 125,638 + 47,285.

ANSWER _____

4 Find 84,631 - 27,458.

ANSWER _____

5 Find 90,004 - 36,786.

ANSWER _____

6 Find 203,517 - 85,649.

ANSWER _____

APPLY IT Show your work

1 A school video game club scored 48,725 points on Monday and 37,658 points on Tuesday. How many points did the club score in all?

WORK SPACE

ANSWER _____

2 A class-made science video now has 125,400 views. It had 68,975 views by Friday. How many more views did it get after Friday?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says 60,003 - 24,786 = 44,783. Find the correct difference. In one or two sentences, explain how regrouping across the zeros changes the ten-thousands and ones places.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Power

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 38,475 + 24,368.	**62,843**
2	Find 67,208 + 15,794.	**83,002**
3	Find 125,638 + 47,285.	**172,923**
4	Find 84,631 - 27,458.	**57,173**
5	Find 90,004 - 36,786.	**53,218**
6	Find 203,517 - 85,649.	**117,868**

PART 2 · APPLY IT

1. **86,383 points** Add 48,725 and 37,658 to find the total for both days.
2. **56,425 views** Subtract 68,975 from 125,400 to find the views added after Friday.

CHALLENGE

After trading across the zeros, 6 ten-thousands becomes 5 ten-thousands, and 3 ones becomes 13 ones. The correct difference is 35,217.

Accept a place value strategy or the standard algorithm when the computation is correct. For the challenge, accept equivalent explanations that correctly describe the trades across the zero places.