

Regrouping Power

Add and subtract big whole numbers with care.

GRADE 4 • NY-4.NBT.4

NY-4.NBT.4 "Fluently add and subtract multi-digit whole numbers using a standard algorithm."

NAME _____

DATE _____

LINE UP PLACE VALUES

Write numbers so ones, tens, hundreds, thousands, and ten-thousands are in matching columns. Add or subtract from right to left, regrouping when a column has 10 or more, or when you need to unbundle a larger place.

WORKED EXAMPLE

Find $48,376 + 27,859$.

1. Line up the digits by place value.
2. Add the ones, tens, and hundreds.
Regroup to write 235.
3. Add the thousands and ten-thousands, including the regrouped thousand, to get 76,000.
4. Combine the place-value sums: $76,000 + 235 = 76,235$.

Answer: 76,235

PRACTICE 6 problems

1 Find $63,482 + 19,756$.

ANSWER _____

2 Find $90,004 - 37,568$.

ANSWER _____

3 Find $245,679 + 38,945$.

ANSWER _____

4 Find $500,000 - 186,427$.

ANSWER _____

5 Find $72,350 - 28,764$.

ANSWER _____

6 Find $16,908 + 7,497$.

ANSWER _____

APPLY IT Show your work

- 1** The school library had 128,475 books. It received 36,829 more books from a community book drive. How many books does the library have now?

WORK SPACE

ANSWER _____

- 2** The robotics club wants to collect 75,000 bottle caps for a project. The club collected 28,649 caps on Monday and 19,875 caps on Tuesday. How many more bottle caps does the club need?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mia says that $402,015 - 178,946 = 334,069$. Is Mia correct? Explain how you know, and write the correct difference.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find $63,482 + 19,756$.	83,238
2	Find $90,004 - 37,568$.	52,436
3	Find $245,679 + 38,945$.	284,624
4	Find $500,000 - 186,427$.	313,573
5	Find $72,350 - 28,764$.	43,586
6	Find $16,908 + 7,497$.	24,405

PART 2 • APPLY IT

- 165,304 books** Add 128,475 and 36,829. The sum is 165,304.
- 26,476 bottle caps** First add 28,649 and 19,875 to get 48,524. Then subtract 48,524 from 75,000.

CHALLENGE

No. The correct difference is 223,069. A check is $178,946 + 223,069 = 402,015$.

Accept correctly aligned standard-algorithm work and the exact numerical answers. For the challenge, accept a correct explanation using regrouping or addition to check the subtraction.