LESSON MAKER PRO

Break It Apart

Use place-value parts to solve big-number problems.

GRADE 4 · 4.NR.2

4.NR.2 "Using part-whole strategies, solve problems involving addition and subtraction through the hundred-thousands place, as well as multiplication and division of multi-digit whole numbers presented in real-life, mathematical situations."

NAME _____ DATE _____

USE PLACE-VALUE PARTS

Break numbers into thousands, hundreds, tens, and ones. Add or subtract matching parts, use partial products to multiply, and use equal place-value chunks to divide.

WORKED EXAMPLE

34,682 + 12,759

1. Break apart: 34,000 + 600 + 80 + 2 and 12,000 + 700 + 50 + 9.
2. Add each place: 46,000 + 1,300 + 130 + 11.
3. Combine the parts: 47,441.

Answer: 47,441

PRACTICE 6 problems

1 48,307 + 26,845 = ___

ANSWER _____

2 90,000 - 37,468 = ___

ANSWER _____

3 64,205 - 18,976 = ___

ANSWER _____

4 347 x 6 = ___

ANSWER _____

5 24 x 35 = ___

ANSWER _____

6 1,728 / 8 = ___

ANSWER _____

APPLY IT Show your work

1 During a district read-a-thon, students read 46,825 pages in the first week and 18,467 pages in the second week. How many pages did they read altogether?

WORK SPACE

ANSWER _____

2 A skating rink has 2,736 prize tickets. The manager puts the same number of tickets into 8 prize boxes. How many tickets go in each box?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A music festival printed 28,450 wristbands. Seven schools each receive 2,875 wristbands. How many wristbands are left after the schools receive theirs?

WORK SPACE AND ANSWER

ANSWER KEY

Break It Apart

GRADE 4 · 4.NR.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	48,307 + 26,845 = ___	**75,152**
2	90,000 - 37,468 = ___	**52,532**
3	64,205 - 18,976 = ___	**45,229**
4	347 x 6 = ___	**2,082**
5	24 x 35 = ___	**840**
6	1,728 / 8 = ___	**216**

PART 2 · APPLY IT

1. **65,292 pages** Add the pages from both weeks: 46,825 + 18,467 = 65,292.
2. **342 tickets** Divide the total tickets equally: 2,736 / 8 = 342.

CHALLENGE

8,325 wristbands

Accept any correct place-value, partial-product, or equal-groups strategy. For word problems and the challenge, accept answers with or without the unit if the number is correct.