LESSON MAKER PRO

Place Value Power

Add by breaking numbers into parts.

GRADE 4 · 4.NOS.B.3.b

4.NOS.B.3.b "Use computational strategies (e.g., decomposition, partials sums) efficiently."

NAME _____ DATE _____

ADD PARTIAL SUMS

Break each number into thousands, hundreds, tens, and ones. Add the parts in each place, then regroup when a place has 10 or more. Use partial sums to solve the problems below.

WORKED EXAMPLE

Find 2,346 + 1,527.

1. Break apart: 2,346 = 2,000 + 300 + 40 + 6; 1,527 = 1,000 + 500 + 20 + 7.
2. Add matching places: 3,000 + 800 + 60 + 13.
3. Regroup 13 ones: 3,000 + 800 + 70 + 3.

Answer: 3,873

PRACTICE 6 problems

1 486 + 257 = ___

ANSWER _____

2 1,438 + 2,695 = ___

ANSWER _____

3 3,075 + 1,846 = ___

ANSWER _____

4 2,768 + 3,154 = ___

ANSWER _____

5 4,587 + 2,236 = ___

ANSWER _____

6 5,609 + 1,785 = ___

ANSWER _____

APPLY IT Show your work

1 Students sold 1,268 tickets for the school fair on Friday and 1,745 tickets on Saturday. How many tickets did they sell in all? Use partial sums.

WORK SPACE

ANSWER _____

2 Maya scored 2,475 points in one round of a video game and 1,638 points in the next round. How many points did she score in both rounds? Use partial sums.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Find 1,875 + 2,460 + 1,125. Explain which two numbers you added first and why.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Power

GRADE 4 · 4.NOS.B.3.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	486 + 257 = ___	**743**
2	1,438 + 2,695 = ___	**4,133**
3	3,075 + 1,846 = ___	**4,921**
4	2,768 + 3,154 = ___	**5,922**
5	4,587 + 2,236 = ___	**6,823**
6	5,609 + 1,785 = ___	**7,394**

PART 2 · APPLY IT

1. **3,013 tickets** Add by place: 2,000 + 900 + 100 + 13 = 3,013.
2. **4,113 points** Add by place: 3,000 + 1,000 + 100 + 13 = 4,113.

CHALLENGE

5,460. Add 1,875 and 1,125 first because they make 3,000. Then add 2,460.

For the challenge, accept a different order if the student correctly explains how it helps them add. Check that students regroup partial sums correctly.