LESSON MAKER PRO

About How Many?

Round first to estimate sums and differences.

GRADE 3 · 3.N.2.4

3.N.2.4 "Recognize when to round numbers and apply understanding to estimate sums and differences to the nearest ten-thousand, thousand, hundred, and ten."

NAME _____ DATE _____

ROUND, THEN CALCULATE

An estimate helps you find about how many without calculating an exact answer. Round each number to the place named in the question, then add or subtract the rounded numbers.

WORKED EXAMPLE

Estimate 3,462 + 5,719 by rounding each number to the nearest hundred.

1. Round 3,462 to 3,500.
2. Round 5,719 to 5,700.
3. Add: 3,500 + 5,700 = 9,200.

Answer: About 9,200

PRACTICE 6 problems

1 Estimate 437 + 286 by rounding each number to the nearest ten.

ANSWER _____

2 Estimate 864 - 328 by rounding each number to the nearest ten.

ANSWER _____

3 Estimate 2,473 + 1,618 by rounding each number to the nearest hundred.

ANSWER _____

4 Estimate 7,285 - 3,412 by rounding each number to the nearest hundred.

ANSWER _____

5 Estimate 18,650 + 23,720 by rounding each number to the nearest thousand.

ANSWER _____

6 Estimate 68,240 - 21,590 by rounding each number to the nearest ten-thousand.

ANSWER _____

APPLY IT Show your work

1 At a baseball game, 24,620 fans sit on one side of the stadium and 18,850 sit on the other. About how many fans are there in all? Round each number to the nearest thousand.

WORK SPACE

ANSWER _____

2 A school fair starts with 5,648 prize tickets. Students use 2,376 tickets. About how many tickets are left? Round each number to the nearest hundred.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Estimate 3,487 + 2,629 twice: first by rounding each number to the nearest ten, then by rounding each number to the nearest thousand. Find the exact sum. Which estimate is closer? Explain why.

WORK SPACE AND ANSWER

ANSWER KEY

About How Many?

GRADE 3 · 3.N.2.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Estimate 437 + 286 by rounding each number to the nearest ten.	**730**
2	Estimate 864 - 328 by rounding each number to the nearest ten.	**530**
3	Estimate 2,473 + 1,618 by rounding each number to the nearest hundred.	**4,100**
4	Estimate 7,285 - 3,412 by rounding each number to the nearest hundred.	**3,900**
5	Estimate 18,650 + 23,720 by rounding each number to the nearest thousand.	**43,000**
6	Estimate 68,240 - 21,590 by rounding each number to the nearest ten-thousand.	**50,000**

PART 2 · APPLY IT

1. **About 44,000 fans** Round to 25,000 and 19,000, then add to get 44,000.
2. **About 3,200 tickets** Round to 5,600 and 2,400, then subtract to get 3,200.

CHALLENGE

Nearest ten: 3,490 + 2,630 = 6,120. Nearest thousand: 3,000 + 3,000 = 6,000. The exact sum is 6,116. The nearest-ten estimate is closer because it is 4 away, while the nearest-thousand estimate is 116 away.

Accept answers with or without the word "about." For the challenge, accept any explanation that correctly compares how far the two estimates are from 6,116.