

Estimate It Smart

Round numbers to make quick, useful estimates.

GRADE 4 • TEKS 4.4.G

4.4.G "round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole numbers; and"

NAME _____

DATE _____

ROUND, THEN SOLVE

To estimate a sum or difference, round each number to the same place value, then solve. If the digit to the right is 5 or more, round up. For a product, choose nearby numbers that are easy to multiply.

WORKED EXAMPLE

Estimate $6,347 + 2,186$ by rounding to the nearest hundred.

1. Round 6,347 to 6,300.
2. Round 2,186 to 2,200.
3. Add $6,300 + 2,200 = 8,500$.

Answer: 8,500

PRACTICE 6 problems

- 1** Round 7,654 to the nearest ten.

ANSWER _____

- 2** Round 43,271 to the nearest hundred.

ANSWER _____

- 3** Round 258,499 to the nearest thousand.

ANSWER _____

- 4** Estimate $3,746 + 5,128$ by rounding each number to the nearest hundred.

ANSWER _____

- 5** Estimate $91,604 - 37,281$ by rounding each number to the nearest thousand.

ANSWER _____

- 6** Use compatible numbers to estimate 68×412 .

ANSWER _____

APPLY IT Show your work

- 1** The game club sold 1,873 tickets for a tournament in April and 2,246 tickets in May. About how many tickets did the club sell altogether? Round each number to the nearest hundred.

WORK SPACE

ANSWER _____

- 2** A skating rink had 6,452 glow bracelets before a party. During the party, 2,781 bracelets were used. About how many bracelets were left? Round each number to the nearest thousand.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A library has 4,781 adventure books and 2,349 mystery books. Find the exact total. Then estimate the total by rounding to the nearest thousand and by rounding to the nearest hundred. Which estimate is closer to the exact total? Explain how you know.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Round 7,654 to the nearest ten.	7,650
2	Round 43,271 to the nearest hundred.	43,300
3	Round 258,499 to the nearest thousand.	258,000
4	Estimate $3,746 + 5,128$ by rounding each number to the nearest hundred.	8,800
5	Estimate $91,604 - 37,281$ by rounding each number to the nearest thousand.	55,000
6	Use compatible numbers to estimate 68×412 .	28,000

PART 2 • APPLY IT

- 4,100 tickets** Round 1,873 to 1,900 and 2,246 to 2,200. Then add $1,900 + 2,200 = 4,100$.
- 3,000 bracelets** Round 6,452 to 6,000 and 2,781 to 3,000. Then subtract $6,000 - 3,000 = 3,000$.

CHALLENGE

Exact total: 7,130. Nearest thousand estimate: 7,000. Nearest hundred estimate: 7,100. The nearest hundred estimate is closer because it is 30 away from 7,130, while 7,000 is 130 away.

Accept equivalent wording for the challenge explanation if students compare the distances correctly. For problem 6, accept $70 \times 400 = 28,000$ as the compatible-number estimate.