LESSON MAKER PRO

Estimate It Out

Use rounding and compatible numbers to make quick estimates.

GRADE 5 · 5.CE.1.a

5.CE.1.a "Estimate the sum, difference, product, and quotient of whole numbers in contextual problems."

NAME _____ DATE _____

MAKE A SMART ESTIMATE

To estimate a sum, difference, or product, round each number to the place named, then compute. To estimate a quotient, use nearby compatible numbers that divide evenly. A good estimate is close to the exact answer, not exact.

WORKED EXAMPLE

A zoo had 4,673 visitors on Saturday and 2,251 visitors on Sunday. Estimate the total number of visitors by rounding to the nearest thousand.

1. Round 4,673 to 5,000.
2. Round 2,251 to 2,000.
3. Add: 5,000 + 2,000 = 7,000.

Answer: About 7,000 visitors

PRACTICE 6 problems

1 A music app recorded 3,842 song plays on Monday and 2,167 song plays on Tuesday. Estimate the total song plays by rounding to the nearest thousand.

ANSWER _____

2 An arcade player had 7,291 tickets and spent 3,648 tickets on prizes. Estimate how many tickets the player had left by rounding to the nearest thousand.

ANSWER _____

3 A robotics club has 47 kits. Each kit needs 61 small parts. Estimate how many small parts the club needs by rounding to the nearest ten.

ANSWER _____

4 A game room has 392 tokens to share equally among 81 players. Estimate how many tokens each player will get. Use compatible numbers.

ANSWER _____

5 Two classes collected 1,246 cans and 2,719 cans for a food drive. Estimate the total number of cans by rounding to the nearest thousand.

ANSWER _____

6 A maker club fills 68 containers with 29 beads in each container. Estimate the total number of beads by rounding to the nearest ten.

ANSWER _____

APPLY IT Show your work

1 Jalen needs 9,126 points to unlock a game feature. He has earned 4,783 points so far. Estimate how many more points he needs by rounding to the nearest thousand.

WORK SPACE

ANSWER _____

2 A school library is putting 1,176 new books equally on 29 shelves. Estimate how many books will go on each shelf. Use compatible numbers.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A club has 1,782 stickers to share equally among 44 students. Estimate how many stickers each student will get. Name the compatible numbers you used and explain why they work.

WORK SPACE AND ANSWER

ANSWER KEY

Estimate It Out

GRADE 5 · 5.CE.1.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A music app recorded 3,842 song plays on Monday and 2,167 song plays on Tuesday. Estimate the total song plays by rounding to the nearest thousand.	**About 6,000 song plays**
2	An arcade player had 7,291 tickets and spent 3,648 tickets on prizes. Estimate how many tickets the player had left by rounding to the nearest thousand.	**About 3,000 tickets**
3	A robotics club has 47 kits. Each kit needs 61 small parts. Estimate how many small parts the club needs by rounding to the nearest ten.	**About 3,000 small parts**
4	A game room has 392 tokens to share equally among 81 players. Estimate how many tokens each player will get. Use compatible numbers.	**About 5 tokens each**
5	Two classes collected 1,246 cans and 2,719 cans for a food drive. Estimate the total number of cans by rounding to the nearest thousand.	**About 4,000 cans**
6	A maker club fills 68 containers with 29 beads in each container. Estimate the total number of beads by rounding to the nearest ten.	**About 2,100 beads**

PART 2 · APPLY IT

1. **About 4,000 more points** Round 9,126 to 9,000 and 4,783 to 5,000. Subtract 9,000 - 5,000 to get 4,000.
2. **About 40 books per shelf** Use 1,200 and 30 as compatible numbers. Divide 1,200 / 30 = 40.

CHALLENGE

About 40 stickers each. I used 1,800 and 45 because 1,800 / 45 = 40, and both numbers are close to the original numbers.

Accept estimates with the stated rounding or compatible-number method. Accept equivalent answer wording, such as "approximately" instead of "about."