

Smart Number Snapshots

Round numbers to make quick, useful 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 _____

ROUND, THEN SOLVE

To estimate, round each number to a place value that makes the calculation easy. Then calculate with the rounded numbers and label your result as about because an estimate is close, not exact.

WORKED EXAMPLE

Estimate $347 + 258$ by rounding each number to the nearest hundred.

1. 347 rounds to 300.
2. 258 rounds to 300.
3. $300 + 300 = 600$.

Answer: About 600

PRACTICE 6 problems

- 1** Estimate $684 + 129$. Round each number to the nearest hundred.

ANSWER _____

- 2** Estimate $761 - 284$. Round each number to the nearest hundred.

ANSWER _____

- 3** Estimate 47×19 . Round each factor to the nearest ten.

ANSWER _____

- 4** Estimate 218×6 . Round 218 to the nearest hundred.

ANSWER _____

- 5** Estimate $863 \div 29$ by using $900 \div 30$.

ANSWER _____

- 6** Estimate $1,492 \div 48$ by using $1,500 \div 50$.

ANSWER _____

APPLY IT Show your work

- 1** At a gaming club, players earned 1,738 points in one tournament and 2,264 points in the next tournament. Estimate the total number of points. Round each number to the nearest thousand.

WORK SPACE

ANSWER _____

- 2** A skateboard shop puts 38 sticker sheets into each of 24 prize bags. Estimate the number of sticker sheets. Round both numbers to the nearest ten.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

The school library is moving 2,947 graphic novels. It puts about 63 graphic novels on each cart. Estimate how many carts are needed. Explain how you chose compatible numbers.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Estimate $684 + 129$. Round each number to the nearest hundred.	800
2	Estimate $761 - 284$. Round each number to the nearest hundred.	500
3	Estimate 47×19 . Round each factor to the nearest ten.	1,000
4	Estimate 218×6 . Round 218 to the nearest hundred.	1,200
5	Estimate $863 / 29$ by using $900 / 30$.	30
6	Estimate $1,492 / 48$ by using $1,500 / 50$.	30

PART 2 • APPLY IT

- About 4,000 points** 1,738 rounds to 2,000, and 2,264 rounds to 2,000. Then add $2,000 + 2,000 = 4,000$.
- About 800 sticker sheets** 38 rounds to 40, and 24 rounds to 20. Then multiply $40 \times 20 = 800$.

CHALLENGE

About 50 carts. I used $3,000 / 60$ because those numbers are close to 2,947 and 63, and $3,000 / 60 = 50$.

For items with a stated rounding method, accept the shown estimate, with or without the word about. For the challenge, accept about 50 carts with a correct compatible-number explanation, such as $3,000 / 60 = 50$.