

Pick Your Path

Choose a smart math method, then solve.

GRADE 3 • TEKS 3.1.C

3.1.C "select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;"

NAME _____

DATE _____

CHOOSE A SMART METHOD

Use mental math when you can make friendly numbers in your head. Estimate when you need an answer that is close, and use paper and pencil when you need to keep track of several steps. Check whether your answer is reasonable by comparing it with an estimate.

WORKED EXAMPLE

Use mental math to find $46 + 38$.

1. Break 46 into $40 + 6$ and 38 into $30 + 8$.
2. Add the tens: $40 + 30 = 70$.
3. Add the ones: $6 + 8 = 14$.
4. Add $70 + 14 = 84$.

Answer: 84

PRACTICE 6 problems

- 1** Choose the best method: mental math, estimation, paper and pencil, or number sense. Then find $199 + 25$.

ANSWER _____

- 2** Choose the best method: mental math, estimation, paper and pencil, or number sense. A game app shows 347 points. You earn 121 more points. About how many points do you have? Round each number to the nearest hundred.

ANSWER _____

- 3** Choose the best method: mental math, estimation, paper and pencil, or number sense. Find $468 + 257$.

ANSWER _____

- 4** Choose the best method: mental math, estimation, paper and pencil, or number sense. There are 7 rows of 50 stickers. How many stickers are there?

ANSWER _____

- 5** Choose the best method: mental math, estimation, paper and pencil, or number sense. Find $638 - 279$.

ANSWER _____

- 6** Choose the best method: mental math, estimation, paper and pencil, or number sense. A digital counter shows 703. It shows 7 hundreds and how many ones?

ANSWER _____

APPLY IT Show your work

- 1** A game club gives 47 tickets for each of 9 completed quests. Choose a method that helps you find the exact total. How many tickets can a player earn?

WORK SPACE

ANSWER _____

- 2** A science museum expects 286 visitors on Saturday and 411 visitors on Sunday. The museum plans to prepare 600 wristbands. Choose a method to decide whether 600 wristbands is enough. Is it enough?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A class has 398 raffle tickets and prints 205 more. Find the total without using a paper-and-pencil algorithm. Explain a number-sense method you used.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Choose the best method: mental math, estimation, paper and pencil, or number sense. Then find $199 + 25$.	mental math; 224
2	Choose the best method: mental math, estimation, paper and pencil, or number sense. A game app shows 347 points. You earn 121 more points. About how many points do you have? Round each number to the nearest hundred.	estimation; about 400 points
3	Choose the best method: mental math, estimation, paper and pencil, or number sense. Find $468 + 257$.	paper and pencil; 725
4	Choose the best method: mental math, estimation, paper and pencil, or number sense. There are 7 rows of 50 stickers. How many stickers are there?	mental math; 350 stickers
5	Choose the best method: mental math, estimation, paper and pencil, or number sense. Find $638 - 279$.	paper and pencil; 359
6	Choose the best method: mental math, estimation, paper and pencil, or number sense. A digital counter shows 703. It shows 7 hundreds and how many ones?	number sense; 3 ones

PART 2 • APPLY IT

- paper and pencil; 423 tickets** Multiply 47 by 9. The product is 423.
- estimation; about 700 visitors, so no, 600 wristbands is not enough** Round 286 to 300 and 411 to 400. The estimate is 700 visitors, which is more than 600.

CHALLENGE

603 tickets. I add 200 to 398 to get 598, then add 5 to get 603.

Accept any accurate method that is appropriate for the problem, even if it differs from the listed method. For estimates, accept reasonable rounding that supports the correct decision.