LESSON MAKER PRO

Math Tool Match

Choose a smart method for each problem.

GRADE 4 · TEKS 4.1.C

4.1.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 _____

PICK A SMART METHOD

First decide whether you need an exact answer or an estimate. Use mental math when numbers are easy to break apart, estimation when an answer close enough is useful, and paper and pencil when several steps must be tracked.

WORKED EXAMPLE

Use mental math to find 198 + 367.

1. Round 198 up to 200.
2. Add 200 + 367 = 567.
3. Subtract 2: 567 - 2 = 565.

Answer: 565

PRACTICE 6 problems

1 Use mental math to find 45 + 38.

ANSWER _____

2 Estimate 472 + 219 by rounding each addend to the nearest hundred.

ANSWER _____

3 Use paper and pencil to find 648 - 275.

ANSWER _____

4 Use mental math to find 6 × 49.

ANSWER _____

5 Estimate 387 / 8 by changing 387 to 400.

ANSWER _____

6 Which technique is most useful, mental math, estimation, or paper and pencil? Then find 1,203 - 598 exactly.

ANSWER _____

APPLY IT Show your work

1 The school store packs 46 bundles of trading-card sleeves. Each bundle has 27 sleeves. Select the most useful technique, mental math, estimation, or paper and pencil. How many sleeves are there exactly?

WORK SPACE

ANSWER _____

2 A game club has 286 tokens before a tournament and 143 tokens after it. Select the most useful technique, mental math, estimation, or paper and pencil. About how many tokens did the club use? Round each number to the nearest hundred.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Find 398 + 267 + 102 exactly. In one sentence, explain the technique you chose and why it works.

WORK SPACE AND ANSWER

ANSWER KEY

Math Tool Match

GRADE 4 · TEKS 4.1.C

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use mental math to find 45 + 38.	**83**
2	Estimate 472 + 219 by rounding each addend to the nearest hundred.	**700**
3	Use paper and pencil to find 648 - 275.	**373**
4	Use mental math to find 6 × 49.	**294**
5	Estimate 387 / 8 by changing 387 to 400.	**50**
6	Which technique is most useful, mental math, estimation, or paper and pencil? Then find 1,203 - 598 exactly.	**mental math; 605**

PART 2 · APPLY IT

1. **paper and pencil; 1,242 sleeves** Multiply 46 by 27 using paper and pencil. 46 × 20 = 920 and 46 × 7 = 322, so the total is 1,242.
2. **estimation; about 200 tokens** Round 286 to 300 and 143 to 100. Then subtract 300 - 100 = 200.

CHALLENGE

I used mental math: 398 + 102 = 500, and 500 + 267 = 767.

Accept a correct exact answer with any reasonable named method when students are asked to select one. For estimation items, accept the stated rounded result and the word about.