LESSON MAKER PRO

Number Mission

Solve, check, and explain whole-number problems.

GRADE 5 · 5.CE.1.b.iv

5.CE.1.b.iv "Represent, solve, and justify solutions to single-step and multistep contextual problems by applying strategies (e.g., estimation, properties of addition and multiplication) and algorithms, including the standard algorithm..."

NAME _____ DATE _____

PLAN, SOLVE, CHECK

Read carefully to decide which operations the problem needs. Solve one step at a time, then estimate or use the inverse operation to check whether your answer makes sense. In a real situation, a remainder may mean you need one more group.

WORKED EXAMPLE

Solve: 2,736 / 8

1. 8 goes into 27 three times. Write 3.
2. Subtract 24 from 27. Bring down the 3 to make 33.
3. 8 goes into 33 four times. Write 4.
4. 8 goes into 16 two times. Write 2.

Answer: 342

PRACTICE 6 problems

1 1. Find the sum: 4,685 + 2,759

ANSWER _____

2 2. Find the difference: 8,302 - 4,876

ANSWER _____

3 3. Multiply: 407 x 6

ANSWER _____

4 4. Multiply: 36 x 24

ANSWER _____

5 5. Divide: 3,528 / 7

ANSWER _____

6 6. Divide: 2,916 / 8

ANSWER _____

APPLY IT Show your work

1 The robotics club gets 8 boxes of 125 buttons. A sponsor gives the club 376 more buttons. The club shares all the buttons equally among 4 teams. How many buttons does each team get?

WORK SPACE

ANSWER _____

2 At a school book swap, students donate 3,684 books. Organizers set aside 486 books for the classroom library. They pack the remaining books into 6 equal crates. How many books go in each crate?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A gaming tournament has 3,675 players. Each shuttle can carry 48 players. How many shuttles are needed so every player has a seat? Explain how the remainder affects your answer.

WORK SPACE AND ANSWER

ANSWER KEY # Number Mission

GRADE 5 · 5.CE.1.b.iv

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1. Find the sum: 4,685 + 2,759	**7,444**
2	2. Find the difference: 8,302 - 4,876	**3,426**
3	3. Multiply: 407 x 6	**2,442**
4	4. Multiply: 36 x 24	**864**
5	5. Divide: 3,528 / 7	**504**
6	6. Divide: 2,916 / 8	**364 R4**

PART 2 · APPLY IT

1. **344 buttons** Multiply 8 x 125 to get 1,000 buttons. Add 376, then divide 1,376 by 4 to get 344.
2. **533 books** Subtract 486 from 3,684 to get 3,198 books. Divide 3,198 by 6 to get 533.

CHALLENGE

77 shuttles, because 3,675 / 48 = 76 R27, so one more shuttle is needed.

Accept correct standard algorithms, partial-products methods, or other valid written strategies. For problem 6, accept 364 R4; for the challenge, accept 77 only if the student accounts for the 27 players left over.