LESSON MAKER PRO

Solve It Smart

Plan, solve, and check each situation.

GRADE 5 · 5.MP.1

5.MP.1 "Make sense of problems and persevere in solving them."

NAME _____ DATE _____

A PROBLEM-SOLVING PLAN

Read the whole situation and decide what the question asks before you calculate. Mark the facts you need, choose an operation or a sequence of operations, and use an estimate or an inverse operation to check whether your answer makes sense.

WORKED EXAMPLE

A library puts 6 new books on each of 14 display tables. How many new books are on the tables?

1. There are 14 equal groups of 6 books.
2. Multiply: 14 times 6 = 84.
3. Check: 84 / 14 = 6.

Answer: 84 books

PRACTICE 6 problems

1 Plan, solve, and check: Miguel has 27 trading cards. He gets 35 more cards and gives 19 cards to his cousin. How many trading cards does Miguel have now?

ANSWER _____

2 Plan, solve, and check: The art room has 8 boxes with 12 colored pencils in each box. How many colored pencils are there?

ANSWER _____

3 Plan, solve, and check: A smoothie recipe uses 1/8 liter of juice from a container holding 3/4 liter. How much juice is left?

ANSWER _____

4 Plan, solve, and check: A streamer has 2.75 meters of ribbon for a backdrop. She cuts off 1.20 meters. How much ribbon remains?

ANSWER _____

5 Plan, solve, and check: A student has $50 for a game event. Two tickets cost $17 each. How much money is left after buying both tickets?

ANSWER _____

6 Plan, solve, and check: A class of 45 students is riding in vans that each hold 9 students. How many vans are needed?

ANSWER _____

APPLY IT Show your work

1 Plan, solve, and check: The school esports club sells 125 stickers for $3 each. The club spends $48 on supplies. How much money can the club donate?

WORK SPACE

ANSWER _____

2 Plan, solve, and check: At field day, 9 cases each contain 24 water bottles. After 37 bottles are handed out, how many bottles remain?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The student council has 168 trading cards and 115 pencils for prize packs. Each complete prize pack must have 7 trading cards and 5 pencils. What is the greatest number of complete prize packs the council can make? Which supply limits the number of packs? Explain how you checked.

WORK SPACE AND ANSWER

ANSWER KEY # Solve It Smart

GRADE 5 · 5.MP.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Plan, solve, and check: Miguel has 27 trading cards. He gets 35 more cards and gives 19 cards to his cousin. How many trading cards does Miguel have now?	**43 trading cards**
2	Plan, solve, and check: The art room has 8 boxes with 12 colored pencils in each box. How many colored pencils are there?	**96 colored pencils**
3	Plan, solve, and check: A smoothie recipe uses 1/8 liter of juice from a container holding 3/4 liter. How much juice is left?	**5/8 liter**
4	Plan, solve, and check: A streamer has 2.75 meters of ribbon for a backdrop. She cuts off 1.20 meters. How much ribbon remains?	**1.55 meters**
5	Plan, solve, and check: A student has $50 for a game event. Two tickets cost $17 each. How much money is left after buying both tickets?	**$16**
6	Plan, solve, and check: A class of 45 students is riding in vans that each hold 9 students. How many vans are needed?	**5 vans**

PART 2 · APPLY IT

1. **$327** First find the money earned, 125 times $3 = $375. Then subtract the $48 spent on supplies: $375 - $48 = $327.
2. **179 water bottles** Find the total number of bottles, 9 times 24 = 216. Then subtract 37 from 216 to get 179.

CHALLENGE

23 complete prize packs. Pencils limit the number of packs. After making 23 packs, 7 trading cards are left and 0 pencils are left.

Accept correct answers with appropriate units. For the fraction problem, accept 5/8 or an equivalent fraction; accept a valid explanation that uses division or repeated groups for the challenge.