

Solve It Step by Step

Make a plan, solve, and check your answer.

GRADE 3 • 3.MP.1

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

NAME _____

DATE _____

A PROBLEM-SOLVING PLAN

Read the problem carefully and decide what you need to find. Make a plan, solve one step at a time, then check whether your answer makes sense.

WORKED EXAMPLE

A librarian puts 28 bookmarks equally into 7 folders. How many bookmarks go in each folder?

1. Need to find how many are in each equal group, so divide.
2. $28 \div 7 = 4$.
3. Check: $7 \times 4 = 28$.

Answer: 4 bookmarks go in each folder.

PRACTICE 6 problems

- 1** Mia has 30 trading cards. She puts 5 cards on each album page. How many pages does she fill? Plan, solve, and check.

ANSWER _____

- 2** A player's game score is 52 points. The player earns 23 more points and then spends 15 points. What is the new score? Plan, solve, and check.

ANSWER _____

- 3** The art club makes 8 rows of 3 paper flags. How many paper flags do they make? Plan, solve, and check.

ANSWER _____

- 4** Nora had some beads. She gave 12 beads to a friend and had 19 beads left. How many beads did Nora have at first? Plan, solve, and check.

ANSWER _____

- 5** A teacher shares 48 markers equally among 8 tables. How many markers does each table get? Plan, solve, and check.

ANSWER _____

- 6** Liam has 29 points in a reading game. He earns 16 more points. He wants 50 points. How many more points does he need? Plan, solve, and check.

ANSWER _____

APPLY IT Show your work

- 1** For a video-game club prize table, there are 6 boxes with 8 key chains in each box. The club gives away 17 key chains. How many key chains are left? Show your plan and check your answer.

WORK SPACE

ANSWER _____

- 2** Sam has 60 points to spend at a comic shop. Sam buys 3 comic books for 12 points each, then earns 5 more points. How many points does Sam have now? Show your plan and check your answer.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A camp has 54 name tags to share equally among 9 teams. How many name tags does each team get? Explain how multiplication can check your answer.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Mia has 30 trading cards. She puts 5 cards on each album page. How many pages does she fill? Plan, solve, and check.	6 pages
2	A player's game score is 52 points. The player earns 23 more points and then spends 15 points. What is the new score? Plan, solve, and check.	60 points
3	The art club makes 8 rows of 3 paper flags. How many paper flags do they make? Plan, solve, and check.	24 paper flags
4	Nora had some beads. She gave 12 beads to a friend and had 19 beads left. How many beads did Nora have at first? Plan, solve, and check.	31 beads
5	A teacher shares 48 markers equally among 8 tables. How many markers does each table get? Plan, solve, and check.	6 markers
6	Liam has 29 points in a reading game. He earns 16 more points. He wants 50 points. How many more points does he need? Plan, solve, and check.	5 more points

PART 2 • APPLY IT

- 31 key chains** Find the total first: $6 \times 8 = 48$. Then subtract the key chains given away: $48 - 17 = 31$.
- 29 points** Find the cost of the comic books: $3 \times 12 = 36$. Subtract 36 from 60, then add 5: $60 - 36 + 5 = 29$.

CHALLENGE

Each team gets 6 name tags. Check: $9 \times 6 = 54$, so the equal sharing is correct.

Accept correct equations, drawings, repeated addition, or other clear strategies that lead to the stated answer. For the challenge, accept an explanation that uses $9 \times 6 = 54$ or another correct multiplication check.