

Plan, Solve, Check

Use a smart plan for each story problem.

GRADE 2 • TEKS 2.1.B

2.1.B “use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;”

NAME _____

DATE _____

SOLVE STORIES STEP BY STEP

Read the story and decide if the amount gets more or less. Make a plan to add or subtract, solve the problem, and check with the opposite operation. Tell why your answer fits the story.

WORKED EXAMPLE

Nora has 8 buttons. She gets 5 more buttons. How many buttons does she have now?

1. The number gets more, so add.
2. Write $8 + 5 = 13$.
3. Check: $13 - 5 = 8$.
4. The check matches the number she started with.

Answer: Nora has 13 buttons.

PRACTICE 5 problems

- 1** Liam has 4 toy cars. He gets 3 more toy cars. What is your plan? Solve and check your answer.

ANSWER _____

- 2** Ava has 9 stickers. Her aunt gives her 2 more stickers. What is your plan? Solve and check your answer.

ANSWER _____

- 3** Omar has 15 crackers. He eats 4 crackers. What is your plan? Solve and check your answer.

ANSWER _____

- 4** A dog has 12 treats. Its owner puts 6 more treats in the bowl. What is your plan? Solve and check your answer.

ANSWER _____

- 5** There are 17 balloons at a party. Six balloons pop. What is your plan? Solve and check your answer.

ANSWER _____

APPLY IT Show your work

- 1** The class pet has 14 food pellets. Jay adds 3 more pellets to the bowl. Make a plan, solve, and check. Explain why your answer makes sense.

WORK SPACE

ANSWER _____

- 2** Riley has 19 game tokens. Riley trades 7 tokens for a new game piece. Make a plan, solve, and check. Explain why your answer makes sense.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Ben has 16 beads. Four beads roll away. Ben says 12 beads are left. Choose a plan. Decide if Ben is right, then use a check and explain why.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Liam has 4 toy cars. He gets 3 more toy cars. What is your plan? Solve and check your answer.	Add: $4 + 3 = 7$. Check: $7 - 3 = 4$. Liam has 7 toy cars.
2	Ava has 9 stickers. Her aunt gives her 2 more stickers. What is your plan? Solve and check your answer.	Add: $9 + 2 = 11$. Check: $11 - 2 = 9$. Ava has 11 stickers.
3	Omar has 15 crackers. He eats 4 crackers. What is your plan? Solve and check your answer.	Subtract: $15 - 4 = 11$. Check: $11 + 4 = 15$. Omar has 11 crackers.
4	A dog has 12 treats. Its owner puts 6 more treats in the bowl. What is your plan? Solve and check your answer.	Add: $12 + 6 = 18$. Check: $18 - 6 = 12$. The dog has 18 treats.
5	There are 17 balloons at a party. Six balloons pop. What is your plan? Solve and check your answer.	Subtract: $17 - 6 = 11$. Check: $11 + 6 = 17$. There are 11 balloons left.

PART 2 • APPLY IT

- Add: $14 + 3 = 17$. Check: $17 - 3 = 14$. There are 17 pellets because Jay added more.** Add because the number of pellets increases. Use subtraction to check the total.
- Subtract: $19 - 7 = 12$. Check: $12 + 7 = 19$. Riley has 12 tokens because some tokens were traded away.** Subtract because Riley gives away tokens. Use addition to check the number left.

CHALLENGE

Ben is right. Subtract: $16 - 4 = 12$. Check: $12 + 4 = 16$. Twelve is reasonable because 4 beads rolled away.

Accept a correct addition or subtraction plan, a correct answer, and a valid opposite-operation check. Accept clear story-based explanations that tell why the amount got more or less.