LESSON MAKER PRO

Story Math Models

Use equations to show what happens in each story.

GRADE 2 · 2.MP.4

2.MP.4 "Model with mathematics."

NAME _____ DATE _____

MODEL THE STORY

Read the story and decide if the amount gets bigger or smaller. Write an equation that matches the story, solve it, and use the opposite operation to check your answer.

WORKED EXAMPLE

Kai has 6 crayons. A friend gives Kai 7 more crayons. How many crayons does Kai have?

1. Start with 6 crayons.
2. Add 7 crayons: 6 + 7 = 13.
3. Check: 13 - 7 = 6.

Answer: Kai has 13 crayons.

PRACTICE 5 problems

1 Mia has 8 toy cars. She gets 4 more toy cars. How many toy cars does she have? Write an equation, solve, and check.

ANSWER _____

2 Owen has 15 crackers. He eats 3 crackers. How many crackers are left? Write an equation, solve, and check.

ANSWER _____

3 Nia has 9 beads. She wants 14 beads. How many more beads does she need? Write an equation, solve, and check.

ANSWER _____

4 Ava has 17 balloons. 5 balloons pop. How many balloons are left? Write an equation, solve, and check.

ANSWER _____

5 Ben has 2 snack bags. Each bag has 4 apple slices. How many apple slices does Ben have? Write an equation, solve, and check.

ANSWER _____

APPLY IT Show your work

1 Jada earns 18 game tickets at an arcade. She uses 9 tickets for a prize. How many tickets does Jada have left? Model the story with an equation, solve, and check.

WORK SPACE

ANSWER _____

2 Zoe makes 3 bracelets. She puts 5 beads on each bracelet. How many beads does Zoe use? Model the story with an equation, solve, and check.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A sticker page has 20 spots. Sam puts stickers on some spots, and 11 spots are empty. How many stickers did Sam put on the page? Write an equation, solve, and tell how you checked.

WORK SPACE AND ANSWER

ANSWER KEY

Story Math Models

GRADE 2 · 2.MP.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Mia has 8 toy cars. She gets 4 more toy cars. How many toy cars does she have? Write an equation, solve, and check.	**8 + 4 = 12. Mia has 12 toy cars.**
2	Owen has 15 crackers. He eats 3 crackers. How many crackers are left? Write an equation, solve, and check.	**15 - 3 = 12. Owen has 12 crackers left.**
3	Nia has 9 beads. She wants 14 beads. How many more beads does she need? Write an equation, solve, and check.	**9 + ___ = 14. Nia needs 5 more beads.**
4	Ava has 17 balloons. 5 balloons pop. How many balloons are left? Write an equation, solve, and check.	**17 - 5 = 12. Ava has 12 balloons left.**
5	Ben has 2 snack bags. Each bag has 4 apple slices. How many apple slices does Ben have? Write an equation, solve, and check.	**4 + 4 = 8. Ben has 8 apple slices.**

PART 2 · APPLY IT

1. **18 - 9 = 9. Jada has 9 tickets left.** Subtract the tickets Jada used from the tickets she earned. Check by adding 9 + 9 = 18.
2. **5 + 5 + 5 = 15. Zoe uses 15 beads.** Add 5 beads three times, once for each bracelet. Check by counting three groups of 5.

CHALLENGE

20 - 11 = 9 stickers. I checked by adding 9 + 11 = 20.

Accept matching addition or subtraction equations that show the story correctly. For equal groups, accept repeated addition, such as 5 + 5 + 5, and a correct check using the opposite operation or counting groups.