

# Maya Finds Symmetry on the First Day

Grade 4

Math

Nonfiction

Back to school Theme

~146 words

CCSS.MATH.4.G.A.3

Name: \_\_\_\_\_ Date: \_\_\_\_\_

 **READ — READ THIS PASSAGE CAREFULLY. YOU MAY READ IT TWICE.**

On the first day of school, Maya looked around her new classroom with wide eyes. She noticed shapes everywhere — on posters, tiles, and windows. Maya studied the star on the welcome bulletin board. She imagined folding the star in half. Both sides matched perfectly. A shape has **\*\*symmetry\*\*** when both halves are mirror images. Maya counted four lines of symmetry on that star. Next, Maya opened her new notebook. The front cover had a butterfly printed on it. She traced an invisible line down the middle. The left wing matched the right wing exactly. Maya realized the butterfly had one line of symmetry. Later, Maya looked at the square floor tiles near her desk. She found four lines of symmetry on each tile. A square can be folded four different ways to make matching halves. Maya left school that day knowing symmetry hides in everyday shapes all around her.

 *Tip: Read the passage twice before turning to the questions on the next page.*

# Maya Finds Symmetry on the First Day

Grade 4

Math

Nonfiction

Back to school Theme

~146 words

CCSS.MATH.4.G.A.3

Questions

 **ANSWER** USE THE PASSAGE ON PAGE 1 TO HELP FIND YOUR ANSWERS.

## MAIN IDEA

1. What is this passage mostly about?

---

---

---

## TEXT EVIDENCE

2. What evidence from the passage shows that the star on the bulletin board has symmetry?

---

---

---

## VOCABULARY

3. What does the word symmetry mean as it is used in this passage?

---

---

---

## INFERENCE

4. Why do you think the author chose a butterfly to show a shape with one line of symmetry?

---

---

---

## CAUSE AND EFFECT

5. Because Maya traced an invisible line down the middle of the butterfly, what did she discover?

---

---

---

## TEXT EVIDENCE

6. What does the passage say about the square floor tiles near Maya's desk?

---

---

---

# ✓ ANSWER KEY — Maya Finds Symmetry on the First Day

Grade 4

Math

Nonfiction

Back to school Theme

~146 words

CCSS.MATH.4.G.A.3

TEACHER / PARENT USE ONLY — Suggested answers shown below each question

On the first day of school, Maya looked around her new classroom with wide eyes. She noticed shapes everywhere — on posters, tiles, and windows. Maya studied the star on the welcome bulletin board. She imagined folding the star in half. Both sides matched perfectly. A shape has **symmetry** when both halves are mirror images. Maya counted four lines of symmetry on that star. Next, Maya opened her new notebook. The front cover had a butterfly printed on it. She traced an invisible line down the middle. The left wing matched the right wing exactly. Maya realized the butterfly had one line of symmetry. Later, Maya looked at the square floor tiles near her desk. She found four lines of symmetry on each tile. A square can be folded four different ways to make matching halves. Maya left school that day knowing symmetry hides in everyday shapes all around her.

## MAIN IDEA

### 1. What is this passage mostly about?

This passage is mostly about Maya discovering lines of symmetry in different shapes on her first day of school.

## TEXT EVIDENCE

### 2. What evidence from the passage shows that the star on the bulletin board has symmetry?

The passage states, "She imagined folding the star in half. Both sides matched perfectly," which shows the star has symmetry.

## VOCABULARY

### 3. What does the word **symmetry** mean as it is used in this passage?

In this passage, symmetry means that a shape can be divided into two halves that are mirror images of each other, like folding a star so both sides match perfectly.

## INFERENCE

### 4. Why do you think the author chose a butterfly to show a shape with one line of symmetry?

The author likely chose a butterfly because its two wings look identical, making it easy for readers to picture one clear line down the middle; this helps readers understand symmetry using something familiar.

## CAUSE AND EFFECT

### 5. Because Maya traced an invisible line down the middle of the butterfly, what did she discover?

Because Maya traced an invisible line down the middle of the butterfly, she discovered that the left wing matched the right wing exactly, giving the butterfly one line of symmetry.

## TEXT EVIDENCE

### 6. What does the passage say about the square floor tiles near Maya's desk?

The passage states, "She found four lines of symmetry on each tile," showing that a square has more lines of symmetry than a butterfly.