

Year 4 Maths Assessment: Symmetry with Zara the Zebra

Learning objective: To identify, describe, and draw lines of symmetry in 2D shapes and patterns.

Read each question carefully. Use a ruler to draw lines. Look at the shapes and decide if they are symmetrical. If you need help, use the word bank at the bottom.

Zara the Zebra loves patterns! She sees them in nature and in her art. Today, Zara is looking at shapes to see if they have symmetry. A shape is symmetrical if you can fold it in half so that both sides match perfectly.

Word bank: Symmetry · Line of symmetry · Mirror line · Symmetrical · Asymmetrical · Shape · Pattern

1. 1. Look at a square. Use your ruler to draw one line of symmetry through the middle. (2 marks) (2 marks)

2. 2. Is this triangle symmetrical? Circle 'Yes' or 'No'. Explain why in one short sentence. (3 marks) (3 marks)

3. 3. Zara has a shape that costs £2.50. It has 2 lines of symmetry. Name a shape that has at least 2 lines of symmetry. (2 marks) (2 marks)

4. 4. Look at the letter 'A'. Draw the line of symmetry on the letter. (3 marks) (3 marks)

5. 5. Zara is making a symmetrical pattern. The left side has a blue circle and a red square. Describe what Zara must draw on the right side to make it symmetrical. (5 marks) (5 marks)

6. 6. Draw a simple shape that is NOT symmetrical (asymmetrical). (2 marks) (2 marks)

7. 7. How many lines of symmetry does a rectangle have? (1 mark) (1 mark)

8. 8. If you have a shape with 4 lines of symmetry, is it symmetrical? (2 marks) (2 marks)

9. 9. Why is a mirror line important when checking for symmetry? (2 marks) (2 marks)

Draw: Draw a butterfly wing on the left side of the mirror line. Now, draw the matching wing on the right side to complete the symmetrical butterfly.



Extension challenge: Total: /25. Challenge: Can you find an object in the classroom that has more than 4 lines of symmetry? Write down the name of the object.