

Zara's Shape Sorting Safari

Learning objective: To identify and describe the properties of 2D and 3D shapes, including edges, vertices, and faces.

Zara the Zebra has been busy collecting objects from around the park, but she has mixed them up! Look at the list of objects below. Sort them into the correct 'Shape Category' table by identifying the 2D face you might see if you traced around the bottom of the 3D object. Then, use the word bank to help you answer the questions about the shapes.

Word bank: vertex · edge · face · curved · straight · sphere · cube · cylinder

1. Zara finds a box shaped like a cube. How many faces does a cube have? (1 mark)

2. A tin of beans is a cylinder. Does it have any vertices? Explain why. (2 marks)

3. If you draw around the base of a square-based pyramid, what 2D shape do you get? (1 mark)

4. Max the Monkey says a sphere has 8 edges. Is he correct? Give a reason for your answer. (2 marks)

5. Look at a triangle. How many vertices does it have? (1 mark)

Draw: Draw a collection of 3D objects you can find in your classroom or at home. Label one object that has a curved surface and one object that has only straight edges.



Extension challenge: Find three objects in your home that are 3D. Can you count how many faces, edges, and vertices each one has? Write your findings in a table.