

Max the Monkey's Geometry Challenge

Learning objective: To identify, name, and describe 2D and 3D shapes, and use mathematical language to describe position, direction, and movement.

Read each question carefully. Use your best handwriting and show your working out where needed. Good luck!

Max the monkey is tidying up his toy chest. He has lots of different shapes to sort into boxes. Help Max solve his geometry puzzles!

Word bank: circle · square · rectangle · triangle · cube · sphere · pyramid · cylinder · above · below · left · right

1. Max finds a shape with 3 sides and 3 corners. What is the name of this 2D shape? (1 mark)

2. Circle all the 3D shapes in this list: Cube, Square, Sphere, Triangle, Cylinder. Explain how you know a cube is a 3D shape. (3 marks)

3. Max places a ball on the top shelf and a box on the bottom shelf. Using the words 'above' or 'below', describe where the ball is in relation to the box. (2 marks)

4. Look at a rectangle. How many sides does it have? Are all the sides the same length? Explain your answer. (4 marks)

5. Max is walking through the jungle. He moves 2 steps forward, turns a quarter turn to the right, and takes 3 steps forward. Describe what a 'quarter turn' means in your own words. (3 marks)

6. Max has a collection of shapes: 2 triangles, 1 square, and 1 circle. If he adds another square and another circle, how many shapes does he have in total? Show your calculation. (2 marks)

7. Imagine you are building a castle using 3D shapes. Write a short story (5 sentences) describing which shapes you would use for the towers and the roof, and why you chose them. Use words like 'cube', 'pyramid', and 'cylinder' in your writing. (10 marks)

Draw: Draw a pattern that uses a square, a triangle, and a circle. Repeat the pattern three times.



Extension challenge: Total: /25