

Max's Geometry Garden Assessment

Learning objective: To identify 2D and 3D shapes, describe their properties, and recognise turns and symmetry.

Read each question carefully. Use a pencil to draw your shapes and write your answers clearly. Good luck!

Max the monkey is tidying up his garden. He has collected many different objects that are all sorts of shapes. He needs your help to sort his items and solve his geometry puzzles to finish his maths garden project.

Word bank: vertices · edges · faces · symmetry · clockwise · quarter · half · straight · curved

1. Max finds a box. Write down how many faces, edges, and vertices a cube has. (3 marks)

2. Look at a triangle and a square. How are they different? Mention their sides in your answer. (2 marks)

3. Max turns a toy wheel a quarter turn clockwise. Draw what the wheel looks like if it had a star at the top before the turn. (3 marks)

4. Identify which of these shapes have at least one line of symmetry: Rectangle, Scalene Triangle, Circle, Regular Pentagon. (4 marks)

5. Max wants to build a path using patterns. Describe a pattern using two different 2D shapes that repeats three times. (4 marks)

6. Imagine you are Max. Explain to a friend why a sphere is different to a cylinder. Use the words 'curved surface' and 'edges' in your explanation. (5 marks)

7. If Max has a shape with 4 sides of equal length and 4 right angles, what is the name of this shape? (4 marks)

Draw: Draw a 2D shape that has exactly four lines of symmetry and label it. _____

Extension challenge: Total: /25