

Max's Christmas Market Maths

Learning objective: To apply mathematical reasoning and calculation skills to a festive scenario, including multi-step problems and geometric shape identification.

Help Max the monkey organise his Christmas market stall. Use your ruler and protractor to draw the items correctly, then solve the maths problems below. Ensure your drawings are neat and labelled.

Draw: Draw a busy Christmas market stall scene. In the centre, draw a cuboid-shaped gift box using 3D perspective. Beside the box, draw a star decoration using an isosceles triangle. On the side of the stall, draw a rectangular sign and decorate it with a pattern showing at least two different types of angles (acute and obtuse). Use a ruler to ensure all straight lines are sharp and accurate.



Label words: Symmetry · Net · Vertex · Perimeter · Area · Acute angle · Obtuse angle · Isosceles triangle

Steps:

1. Max is selling 15 boxes of mince pies for £3.50 each. If he sells 12 boxes, how much money has he made? Show your calculation.
2. Max wants to hang a star decoration. Draw an isosceles triangle with a base of 4cm and a height of 6cm. Label the two equal sides.
3. Calculate the perimeter of a rectangular stall sign that measures 45cm by 30cm.

4. Draw a net of a cube on your sheet. How many faces does this 3D shape have in total?
5. If Max buys 100 baubles for £25.00 and sells them for 50p each, what is his total profit once all baubles are sold?