

Max's Spooky Party Planning

Learning objective: To apply mathematical reasoning to solve problems involving scaling, budgeting, and 2D shape properties in a seasonal context.

Follow the drawing prompts carefully to build your Spooky Party scene. Use your maths skills to label the components of your diagram with the correct measurements and calculations.

Draw: Create a detailed scene featuring Max the monkey decorating a room for a party. Include: 1) A large pumpkin shaped like a circle (label the radius). 2) A row of triangular bunting banners (label one as a right-angled triangle). 3) A rectangular table covered in treats. Ensure your drawing is neat and uses geometric shapes to represent the party items.



Label words: Right-angled triangle · Perimeter · Area · Budget · Symmetry · Diameter · Radius

Steps:

1. Max wants to hang 12 ghost decorations. Each ghost costs £1.25. Calculate the total cost for the ghosts. Show your working.
2. Draw a pumpkin on your sheet. If the pumpkin has a diameter of 20cm, what is the length of its radius? Explain how you know.
3. Max creates a triangular banner with a base of 10cm and a perpendicular height of 6cm. Calculate the area of this banner.

4. If Max spends £15.00 on snacks and £15.00 on decorations, how much of his £50.00 budget remains?
5. Identify one object in your drawing that displays line symmetry and label it.