

➤ Notes for parents. Activity next page.

The purpose of this task is to have your child:

- apply their geometric knowledge of two-dimensional and three-dimensional shapes, and their measurement knowledge and practical skills, to make three different containers

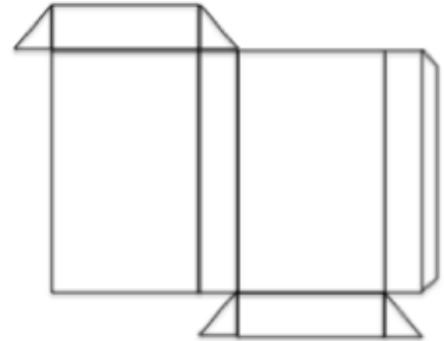
Think about this:

- Ensure that the materials are available for your child to use.
- Measurement and geometry are important parts of mathematics as they require students to apply much of the 'number learning' within practical, real and interesting contexts.
- As your child works on each task, encourage them to first describe to you what they will do. Remind them to measure carefully and accurately as they design and create their shapes.
- This task further develops your child's understanding of the relationship between plane (2D) shapes and the faces of 3D shapes, as they design each net fit for purpose.



You probably know that a net is a pattern that you can cut and fold to make a model of a solid shape.

Here is a net for a cuboid (rectangular prism) It includes little tabs so that it can be glued together.

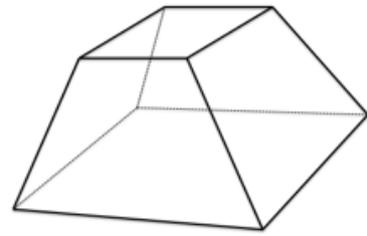


Here are three 'net' challenges for you.

You need: paper or cardboard, a pencil, ruler, scissors and glue.

Can you:

1. Make a net for this shape. The open square at the top is half the area of the flat base of the shape.



2. Design a carton that will hold 2 eggs and keep them from being broken. Make a net for this carton.



3. Make a net for a cardboard container that will hold 1 litre of yoghurt. Glue your container together. Let the glue dry and then test your container. Remember, 1 cubic centimetre (1cm^3) = 1ml; 1000ml = 1L

As you work on each challenge, show a family member and explain what you are doing and why.

