

Mathematics

# Downloadable Resource - Prisms and Cylinders

Mrs Buckmire

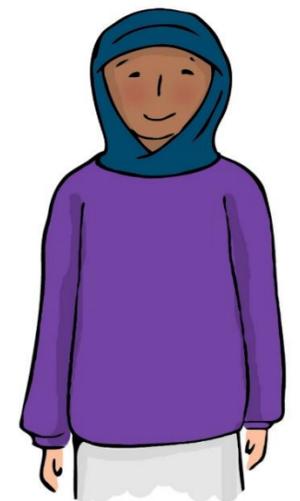
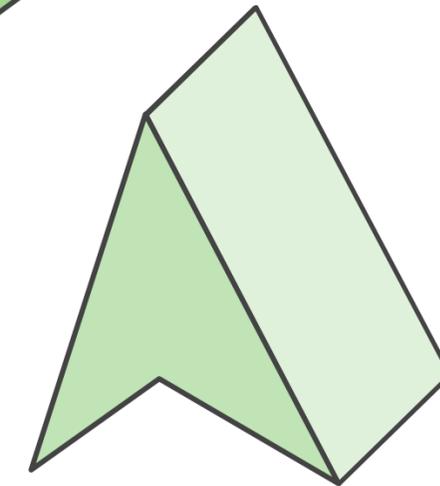
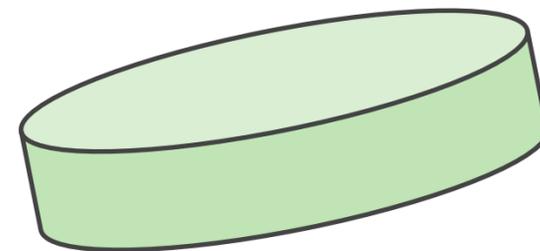
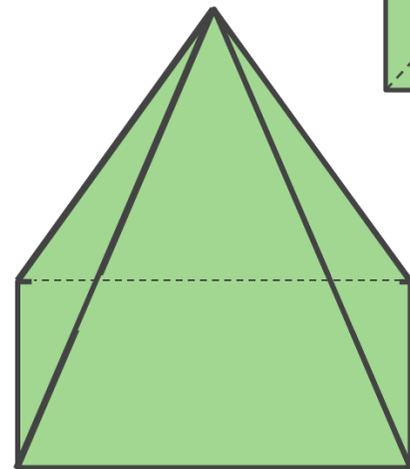
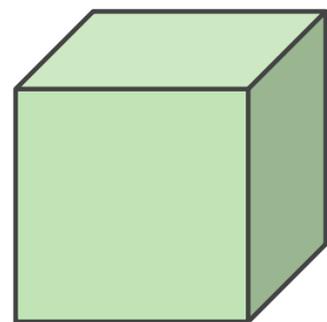
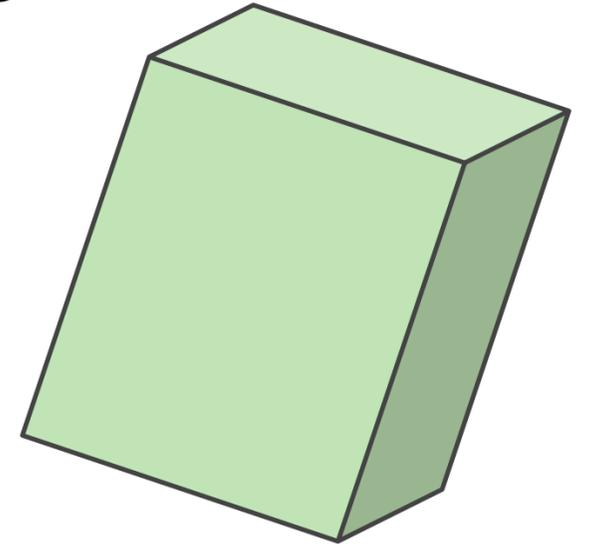
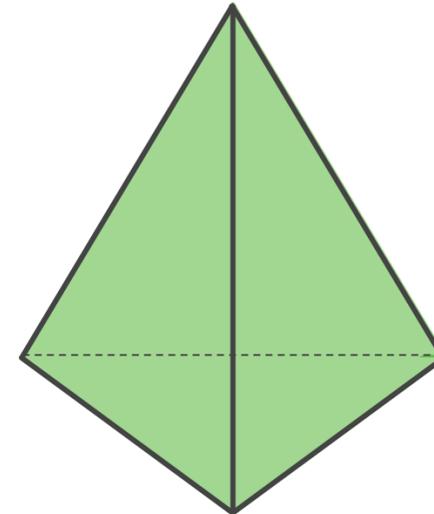
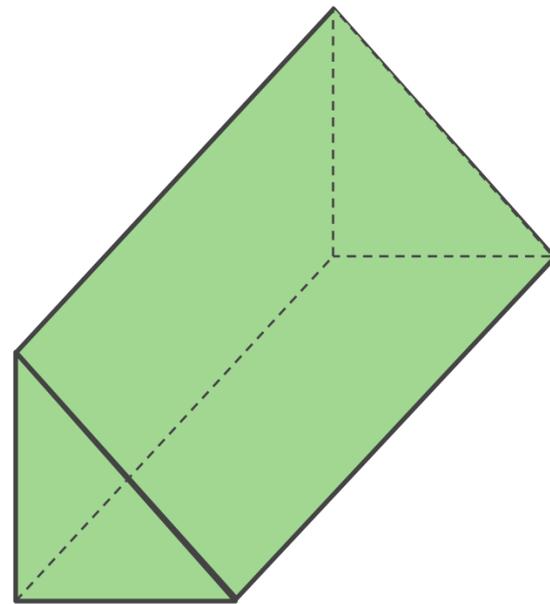
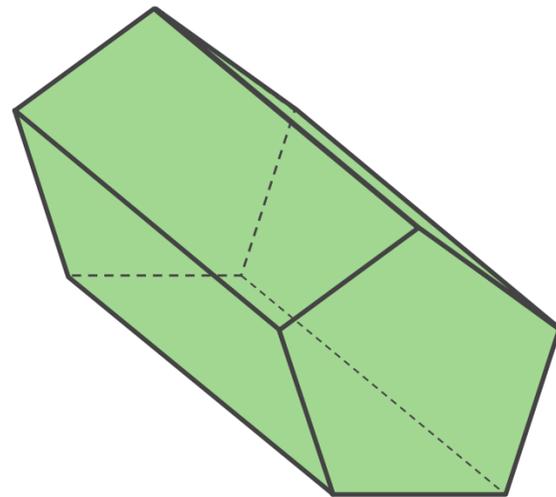




## Try this

Cala wants to split each shape into 5 **congruent** pieces.

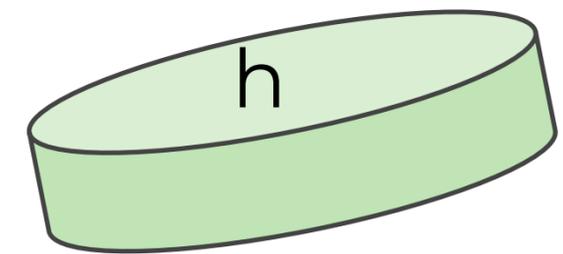
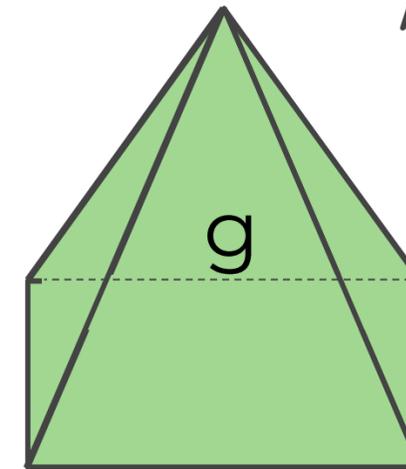
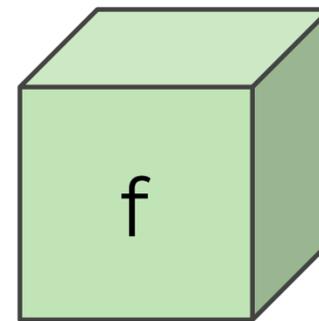
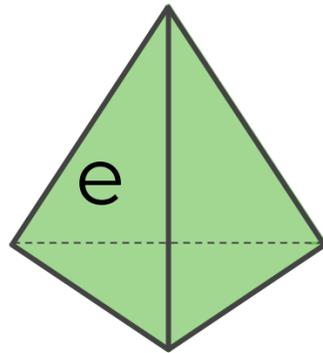
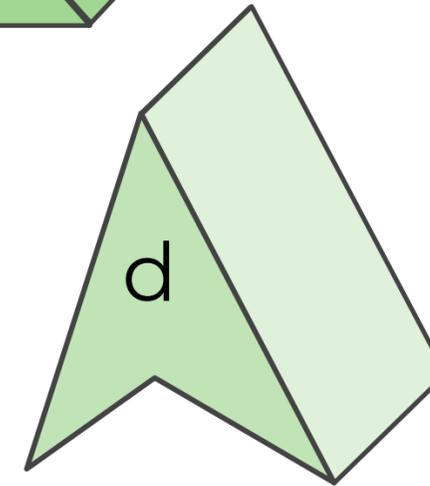
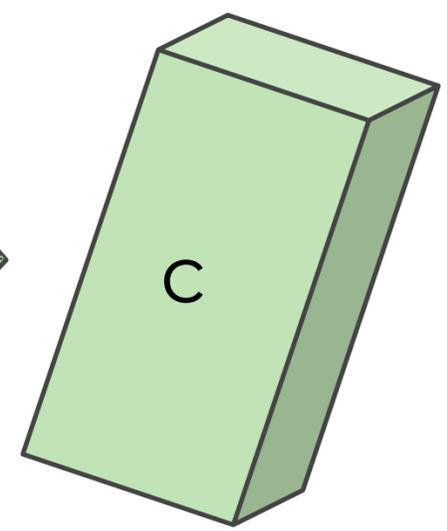
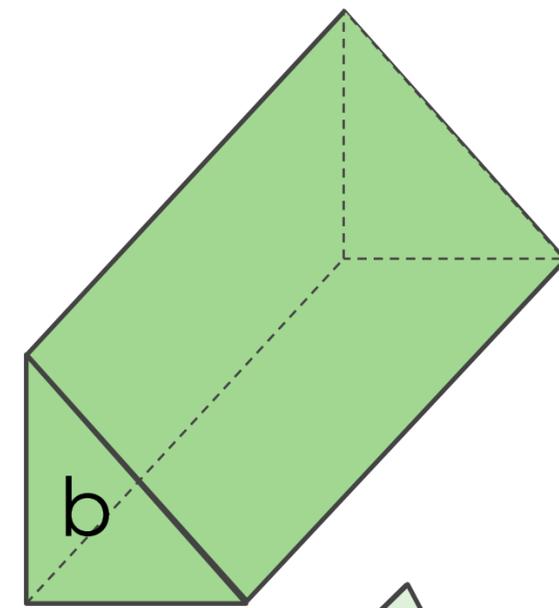
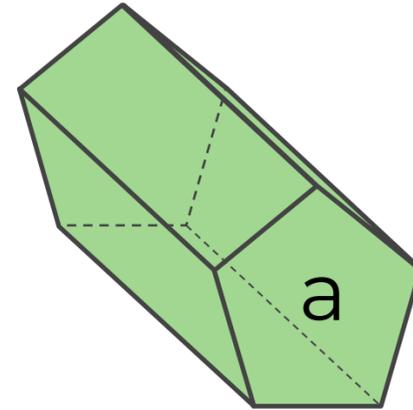
Which of these would she be able to use to achieve this using 4 cuts.



# Independent task

From the selection of shapes identify:

- i. A prism with 8 vertices.
- ii. A 3D shape with 4 faces.
- iii. A prism which does not have a triangular face.
- iv. A prism with 12 edges.
- v. A 3D shape with 9 edges.
- vi. A prism with at least 1 square face.
- vii. A non-prism with 5 vertices.



Which shape is not included?



# Explore

Each of these shapes is the cross section of a 3D shape.

In each case, name a prism (or cylinder), and a non-prism, that each one could be the cross-section of...

