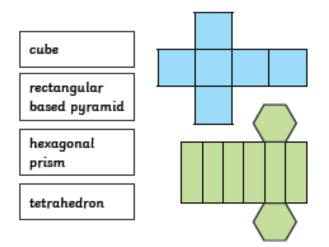
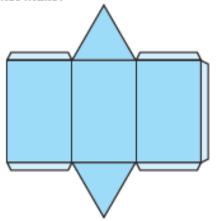
a) Give a definition of a net in one sentence.



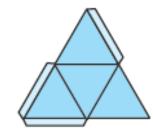
b) Match the nets of 3D shapes to their correct names. Some names won't be needed.



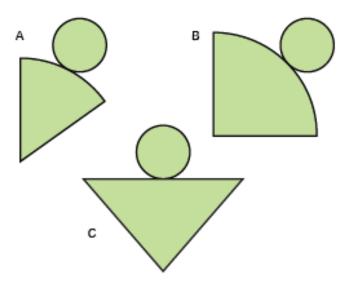
2) a) When assembled, what 3D shape does this net make?



b) How many faces does the assembled 3D shape have? Describe them. 3) When assembled, what 3D shape does this net make?



 Which of these nets would make a cone? Circle the correct answer.



 Mandy is attempting to create a net of an octagonal based pyramid. Complete the net.



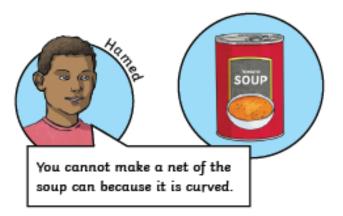
 Tariq is discussing the possibility of constructing a net from these 2D shapes.



It is impossible to make a net for a 3D shape using the shapes I have.

Do you agree with Tariq? If not, draw a net to support your reasoning.

2) Year 6 are discussing nets of shapes.



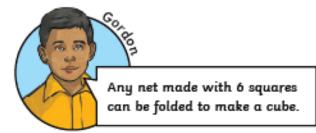
Do you agree with Hamed? Draw a net to support your explanation.  Here is part of a net from a 3D shape. Which 3D shape could it be? Find as many examples as you can, explaining how you know.



 Here is part of a net from a 3D shape. Which 3D shape could it be? Find as many examples as you can, explaining how you know.



 Year 6 are discussing the way in which nets of cubes are created.



Nets of cubes can be made using 6 squares, but only in particular orders.



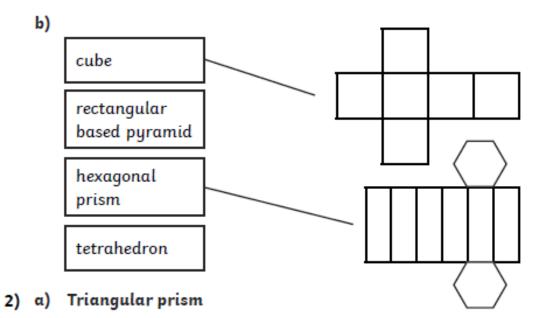
 Shawn is discussing nets of 3D shapes. Shawn is incorrect. Draw as many nets as you can to prove this.

> You cannot make a net of a 3D shape using less than five 2D shapes as faces.



## ANSWERS

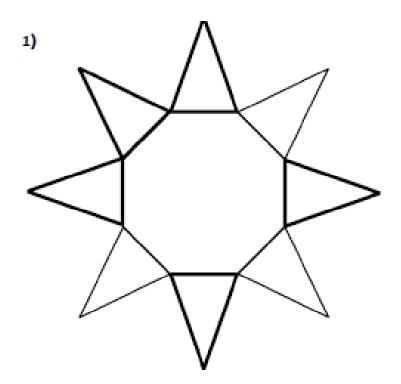
 a) The net of a 3D shape is what the shape looks like if it is opened out flat. or A net can be folded up to make a 3D shape.



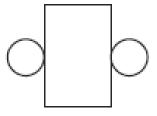
b) 5

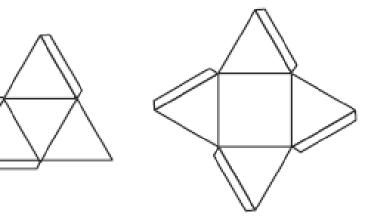
3 rectangles and 2 triangles

- 3) Tetrahedron
- 4) B



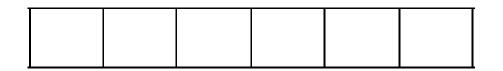
- 2) Hamed is incorrect. The soup can is a cylinder. The curved face can be flattened out into a rectangle. Without the tabs, the net would look like this:
- Tariq is incorrect. With the shapes provided, it is possible to draw a net of a tetrahedron or a square-based pyramid.







- Various answers could include cube, cuboid, rectangular and square-based pyramid, hexagonal/pentagonal/octagonal prisms.
- Various answers could include: cuboid, rectangular based pyramid, hexagonal/pentagonal/octagonal prisms.
- 3) Alyx is correct. For example, if a net with 6 squares was drawn in this way, it would not produce a cube when formed:



4) There are a variety of possible answers, including:

