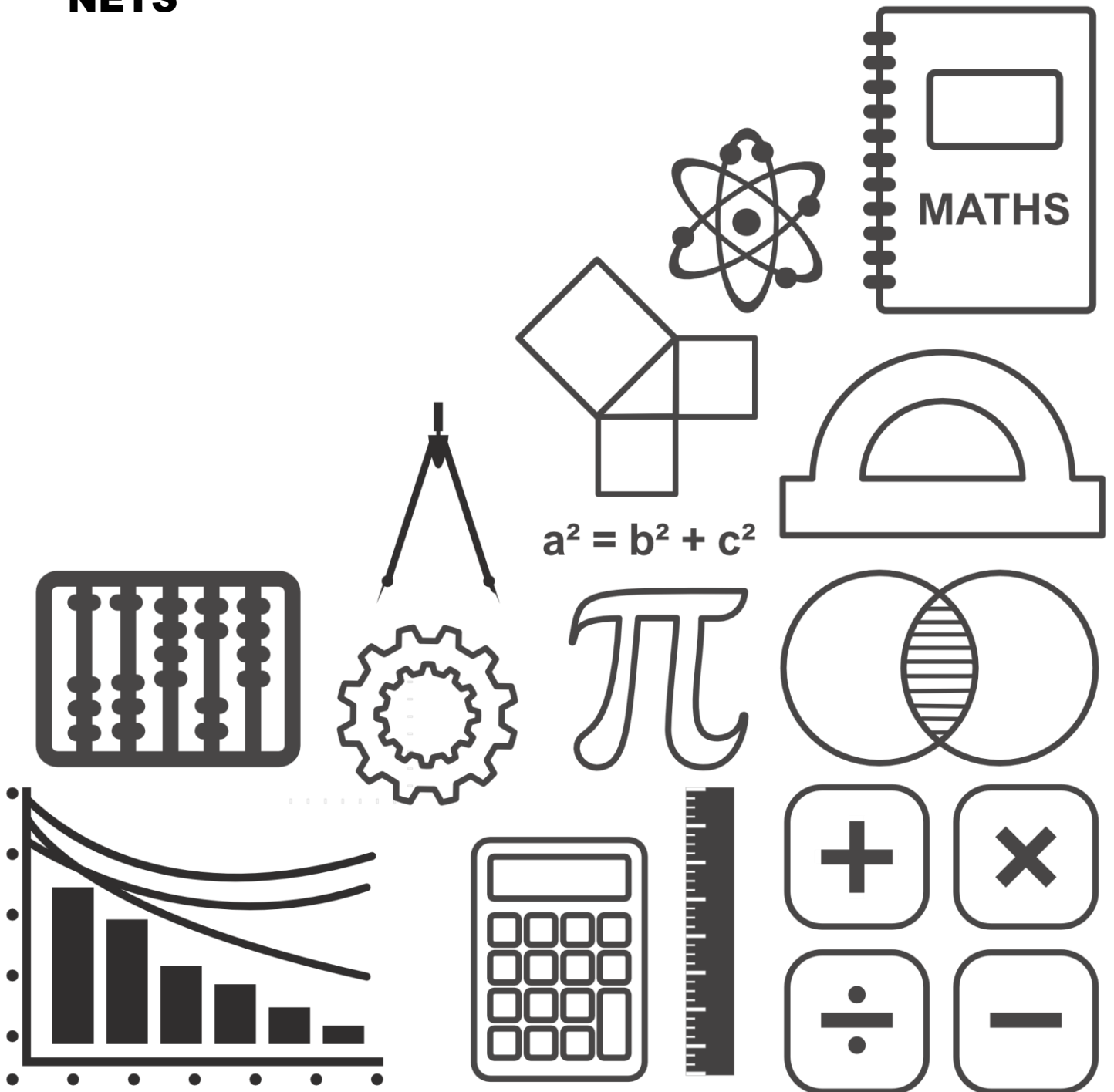


## GCSE TOPIC BOOKLET NETS

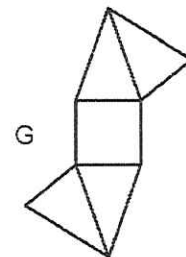
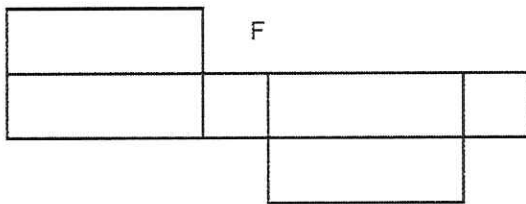
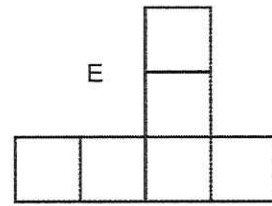
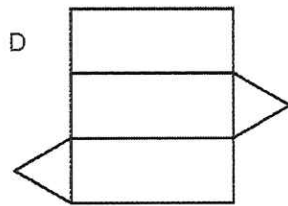
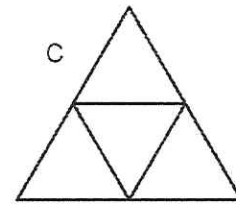
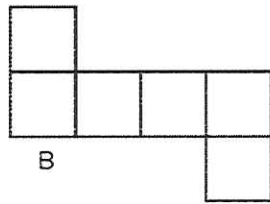
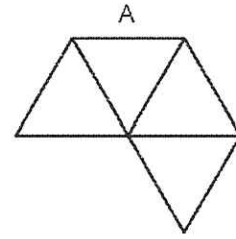


1.

Complete the table below to match each 3-dimensional shape with its correct net. One has been done for you.

[4]

3-dimensional shape	Net
cube	B
cuboid	
triangular prism	
square-based pyramid	
tetrahedron	

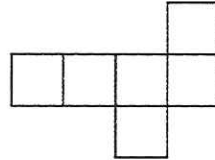
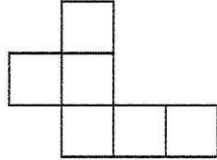
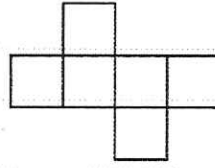
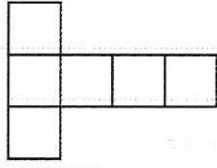


2.

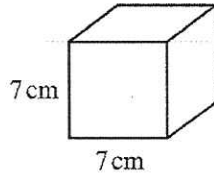
A jewellery shop wishes to create boxes, in the shape of cubes, to use for packaging gifts.

- (a) Which one of the following patterns **cannot** be used to form a box in the shape of a cube?  
Circle your answer.

[1]



- (b) The jewellery shop wants to cover all the sides of a box with paper.  
The box is a cube with sides 7 cm.



*Diagram not drawn to scale*

What is the total area of all the faces of this box?  
State the units of your answer.

.....

.....

.....

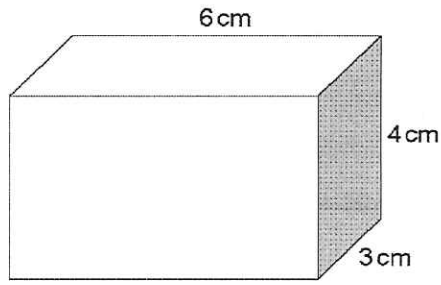
.....

.....

[4]

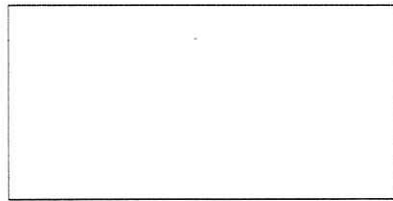
3.

The diagram shows a cuboid with measurements as shown.



Draw an accurate net for the cuboid.  
A 6 cm by 3 cm face has been drawn for you.

[4]



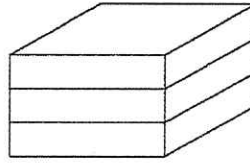
4.

A manufacturer makes cereal bars.

Each bar is a cuboid, measuring 6 cm by 4 cm by 1 cm.

The manufacturer wants to make a box, with a lid, in which to pack 3 cereal bars.

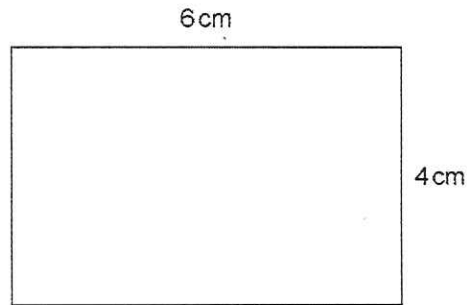
The bars are packed one on top of the other, so that no space is wasted, as shown in the diagram below.

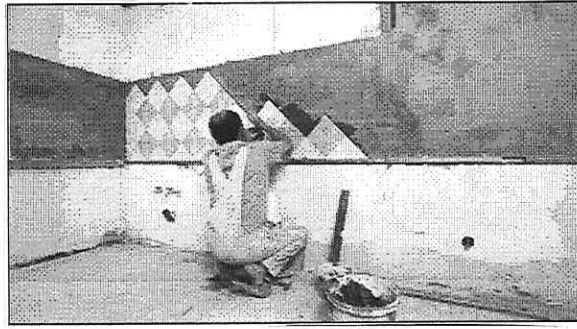


*Diagram not drawn to scale*

Draw an accurate net of the **box** that will hold 3 cereal bars.  
One face has been drawn for you.

[4]

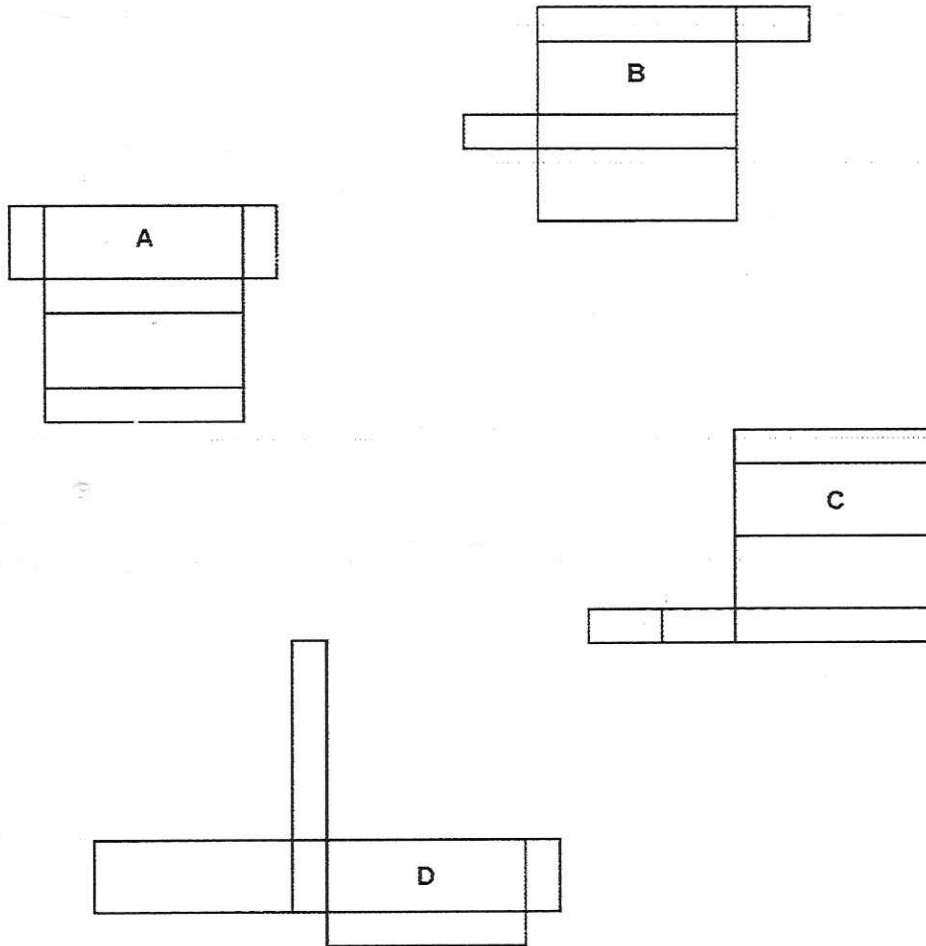


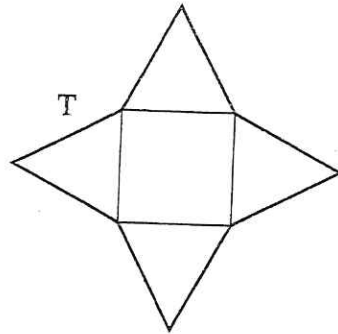
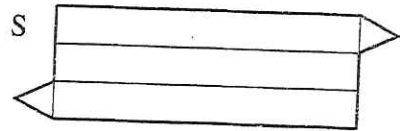
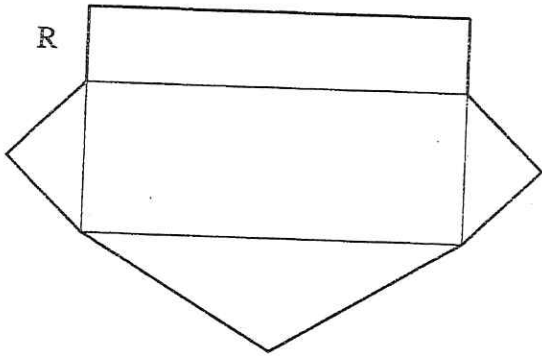
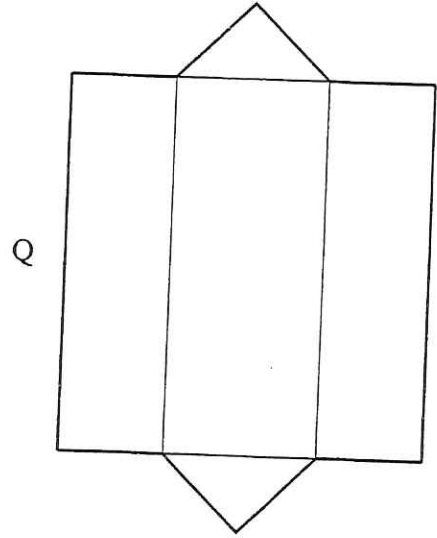
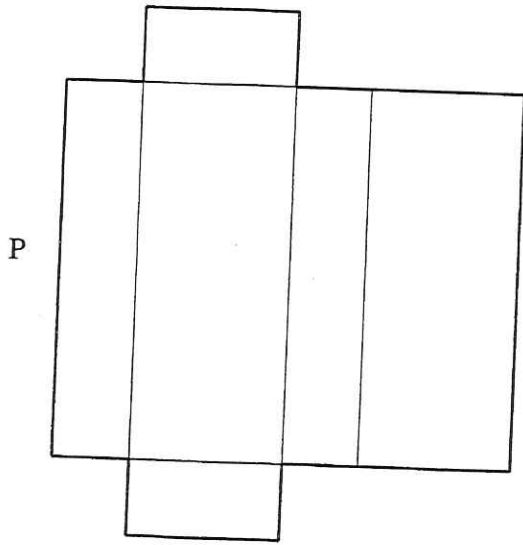


Christopher is tiling his kitchen walls.

The boxes that contain the tiles are cuboids.  
Circle the possible nets that could be used to form the boxes for the tiles.

[2]





Which of the above diagrams represent nets of triangular prisms? .....

[2]