

- 1) Use an **Alien Shape Net** of your choice to create **one** 3D alien and fill in the facts about it:



Shape name:

Face shapes:

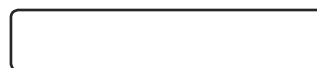
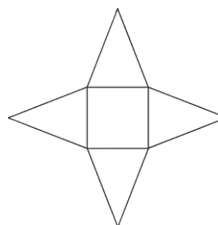
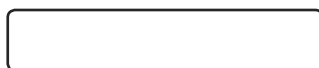
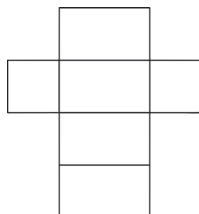
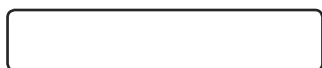
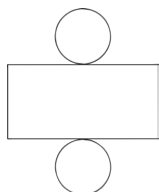
Number of vertices:

Number of faces:

Number of edges:

Curved surface, flat face or both:

- 2) Which shapes are made with these nets?



- 1) Using straws for straight edges and balls of modelling clay for vertices, how many of each would you need to build a pyramid with a hexagonal base?



Straws:

Modelling clay balls:

- 2) You have 8 straws and 6 balls of modelling clay. Circle the names of the shapes you could make using these:

cube

sphere

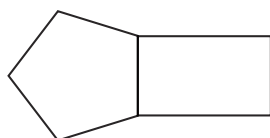
triangular prism

square-based pyramid

cone

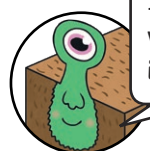


- 1) Complete the net below so that it would make a pentagonal prism when built:



Is there more than one way of completing it that will work?

- 2) One of the 3D shape aliens says:



I can make a 3D shape where every face is an **identical** rectangle.

Investigate this by using squared or isometric (dotty) paper, or interlocking rectangular shapes, to see if she is correct.

Is she correct?

What 3D shape have you made?
