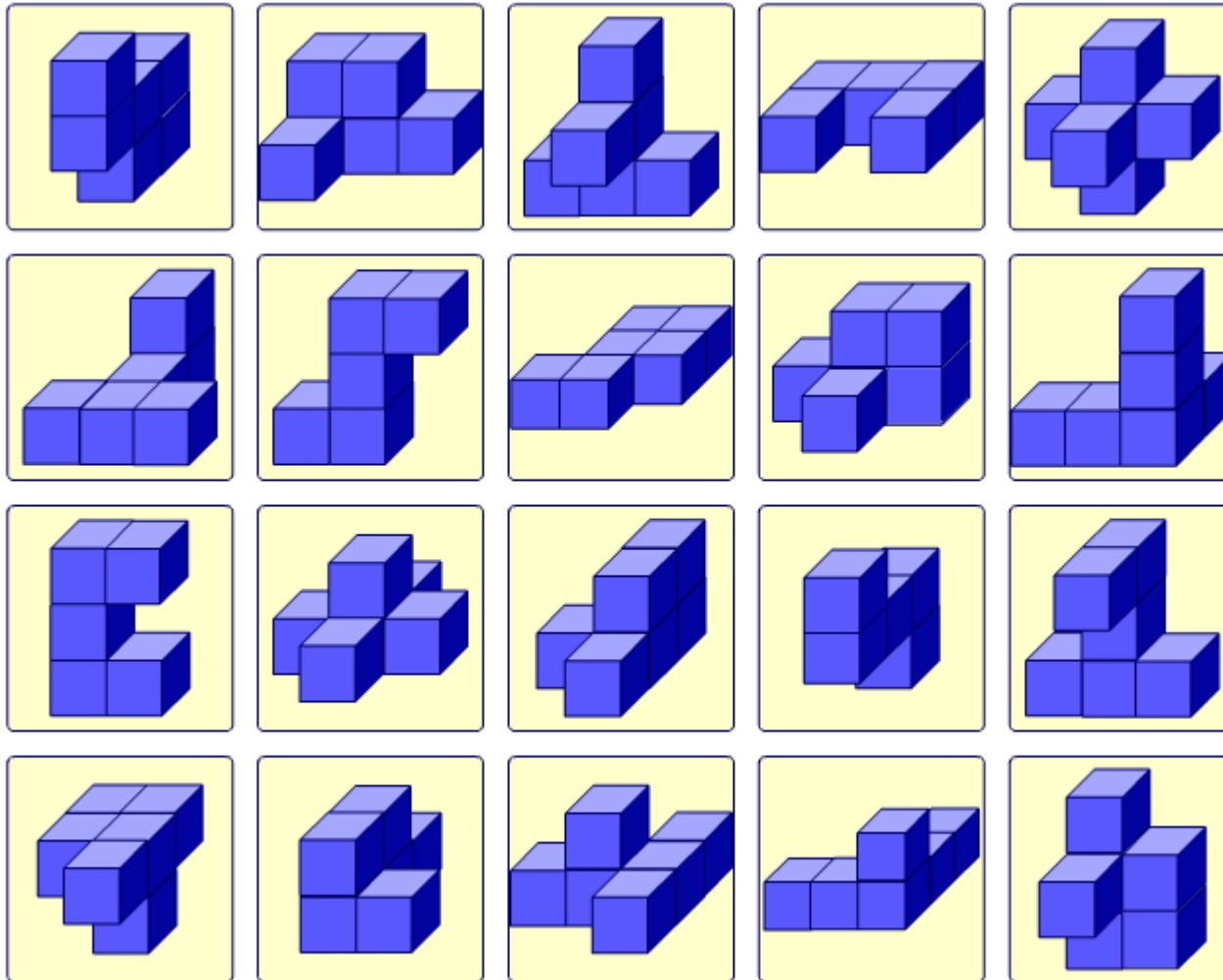


CW

14/6/13

Obj: To be able to draw shapes made from cubes on isometric paper

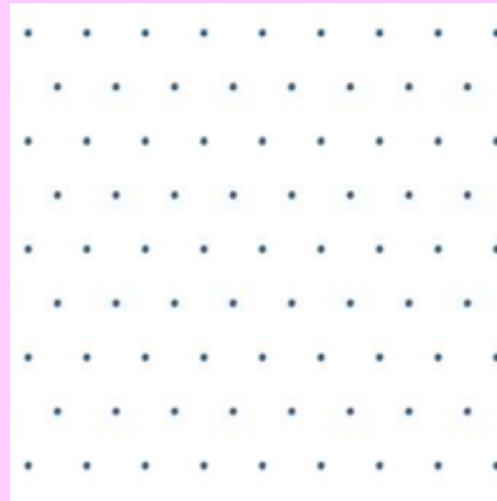
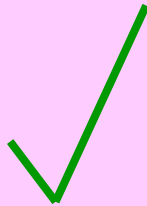
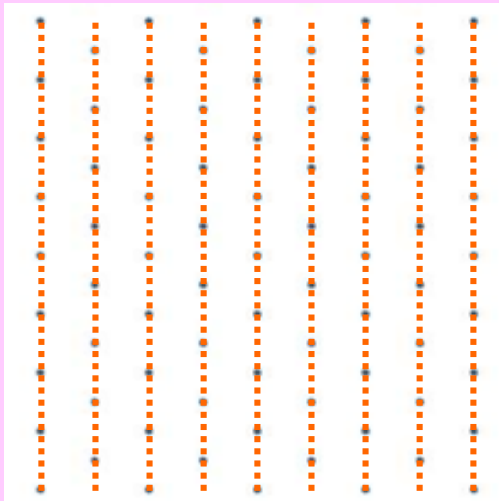
# Equivalent shape match



# Drawing 3-D shapes on an isometric grid

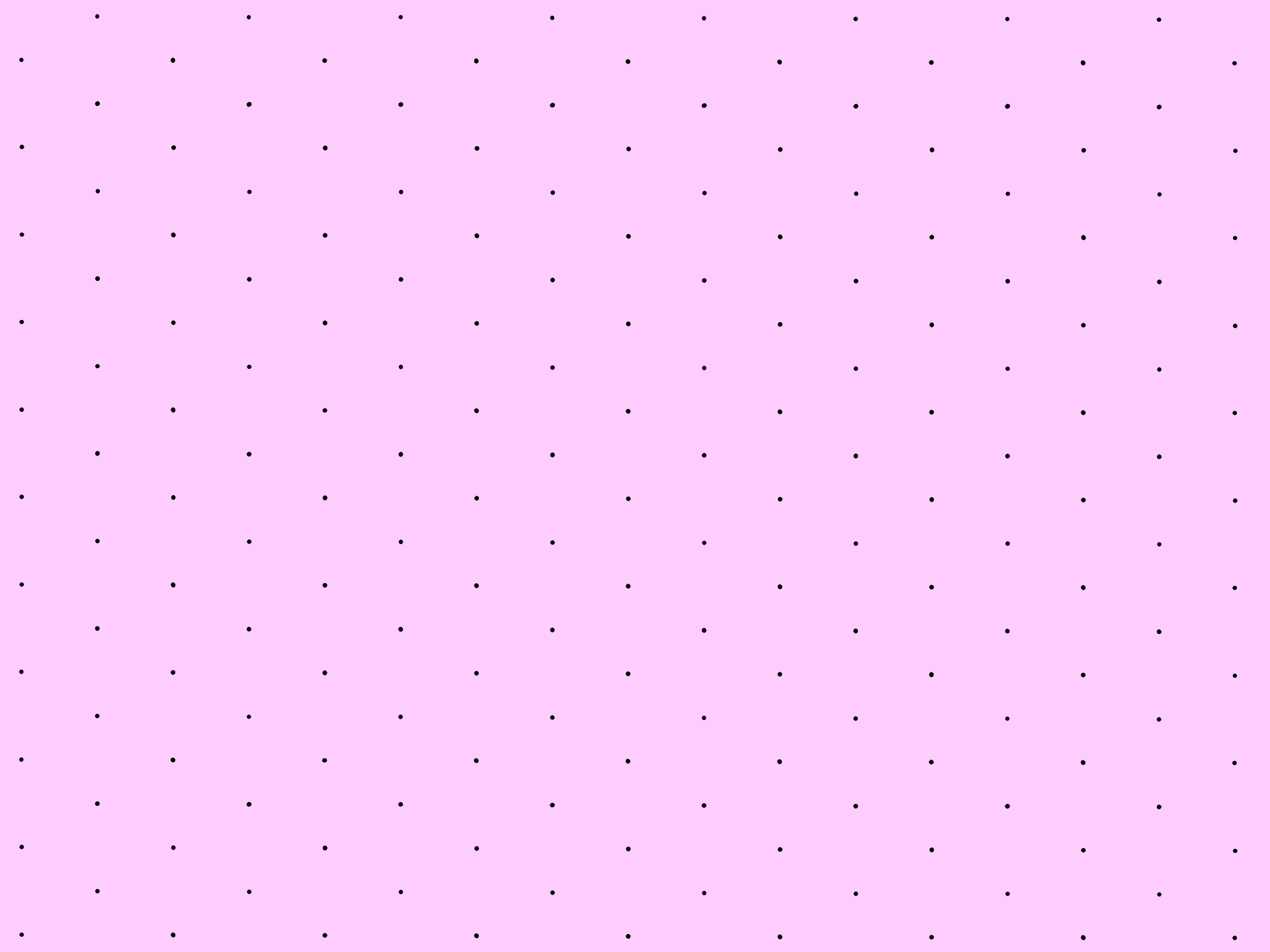
The dots in an isometric grid form equilateral triangles when joined together.

When drawing an 2-D representation of a 3-D shape make sure that the grid is turned the right way round.



The dots should form clear vertical lines.

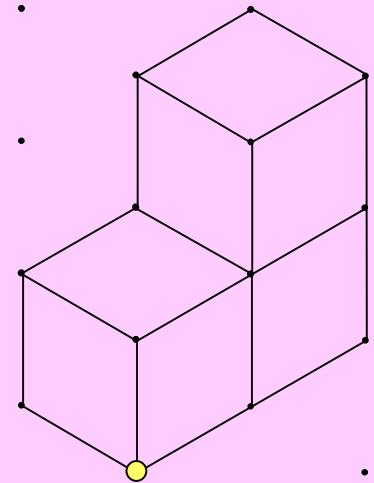
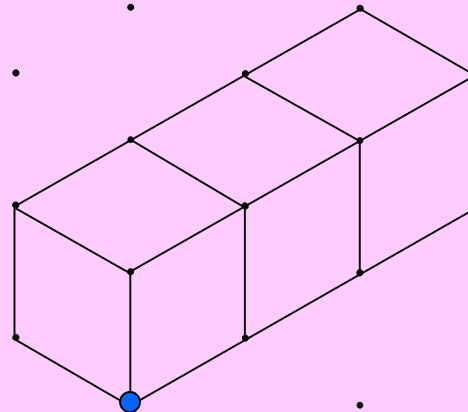
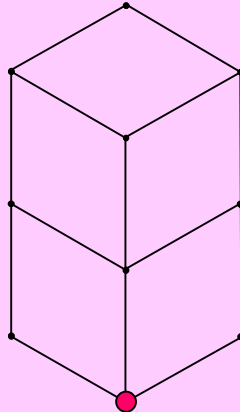
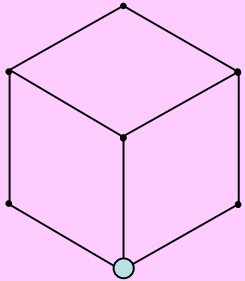




# Isometric Drawing

## Getting Started

Try drawing the simple shapes shown on triangular spotty paper or from the points indicated onto the whiteboard.



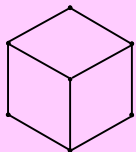
How many different shapes can you make from 1, 2, 3, 4 cubes?

Investigate using some plastic cubes.

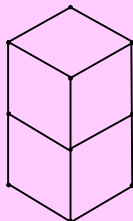
Draw your shapes on your isometric paper.

Extension: Now try 5 cubes!

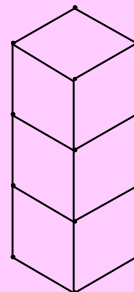
# Polyominoids



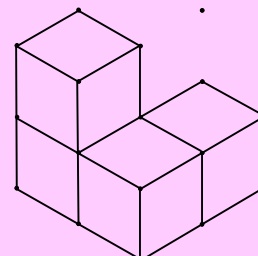
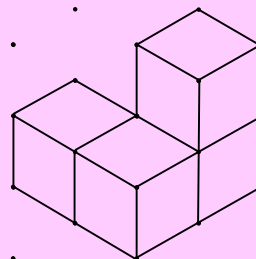
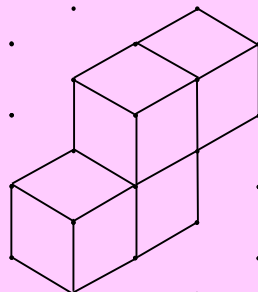
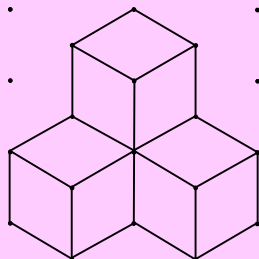
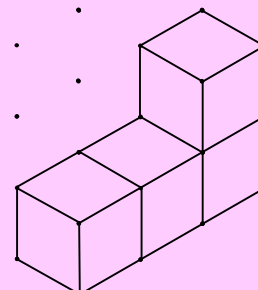
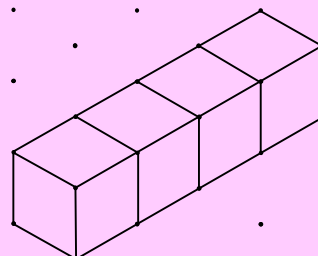
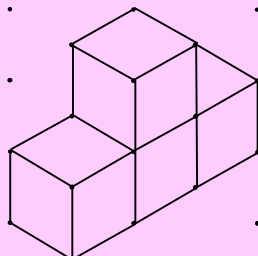
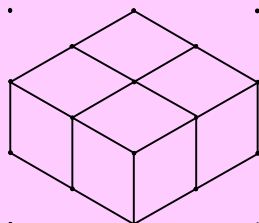
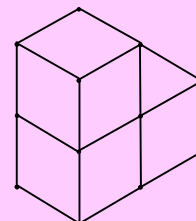
Ominoïd



Dominoïd



Trominoïds



## Tetrominoïds

We are now going to do the Soma cube investigation.

The sheet shows you 7 shapes made from cubes.

In pairs you need to build the 7 shapes and then draw them on isometric paper.

When you have shown me your 7 shapes, you will get a stamp.

The 7 shapes fit together to make a cube. Work out how they fit together. Don't stick them permanently – you need to show me before you get your credit!



Plenary: For level 5

You should now be able to draw a single cube on isometric paper.

You also need to be able to draw a shape made from interlocking cubes