

## Summer Vector Dot to Dot Collage Puzzle 1 (Colour-your-own version)

*Follow the instructions to create a collage picture from a collection of shapes. Cut out each shape and stick it in the right position on the grid. Find where it goes by first plotting its outline.*

Each instruction tells you the colour of a shape and where to place it. You must draw a series of dots at the given points then join them with straight lines in the order given to create the outline. The position of each dot is given by two numbers. The first tells you the number of squares along the top of the grid to go (the x-coordinate). The second tells you the number of squares down to go (the y-coordinate). Notice that computer scientists plot points slightly differently to mathematicians! Once you have drawn the outline, glue the correct shape over it. Some shapes are placed on top of others, and cover the colour and lines below, so you must draw them in the order given.

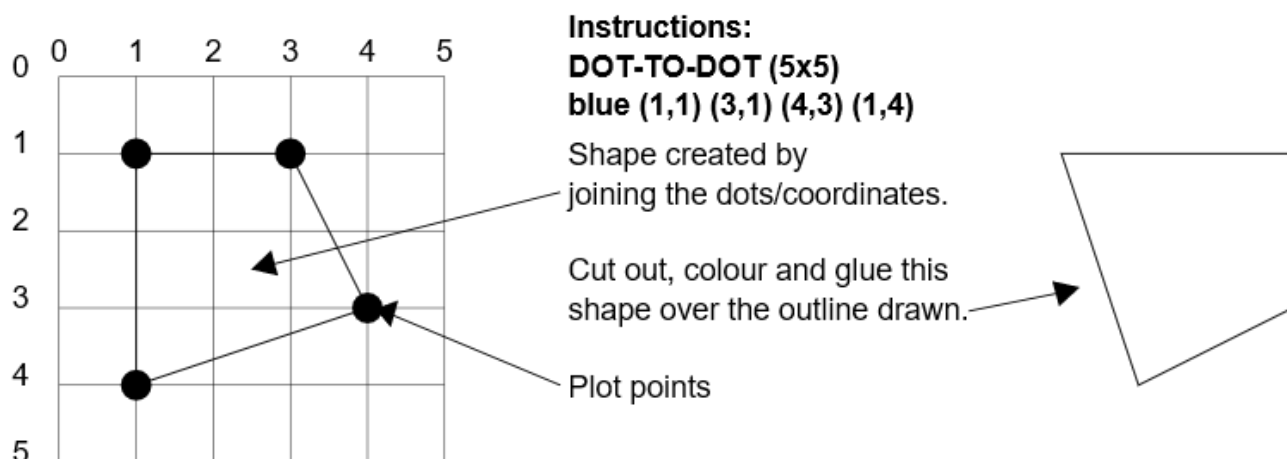
For example, if there is a single instruction:

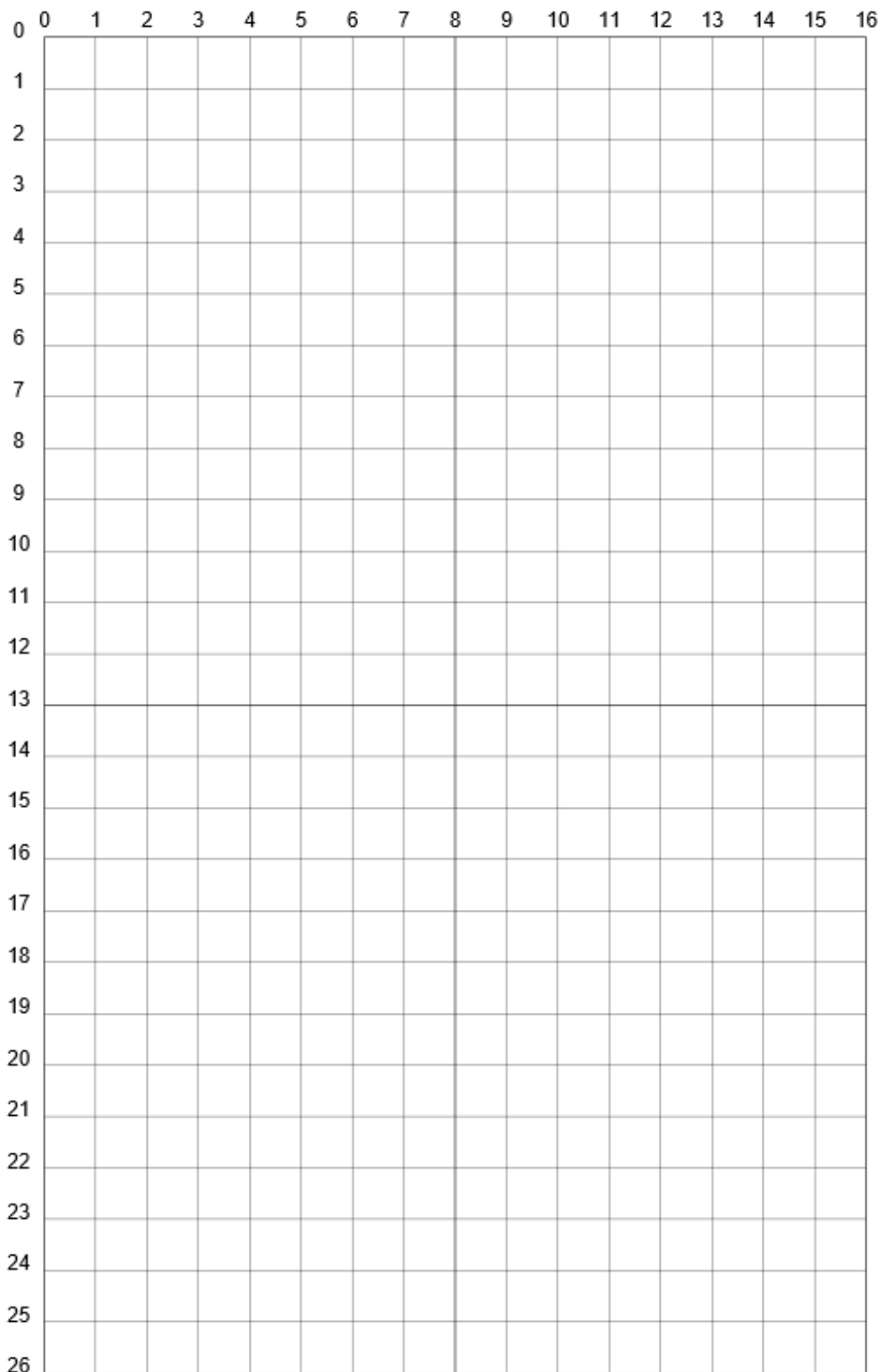
blue (1,1) (3,1) (4,3) (1,4)

first plot the points (1,1) then (3,1) and so on. Next, join each dot in order, finishing back where you started. Finally, pick the corresponding cut out shape, colour it (here blue) and glue it in the correct position.

If there was a second instruction you would do the same for it. If its outline overlapped the first then you would stick it on top of the first.

The very first instruction (eg DOT-TO-DOT (5x5) white) just gives the size of the grid and the background colour (here white).





DOT-TO-DOT (16x26)  
lightblue

white

(5,3) (10,3)  
(12,5) (12,10)  
(3,10) (3,5)

orange

(2,10) (13,10)  
(13,12) (2,12)

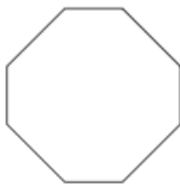
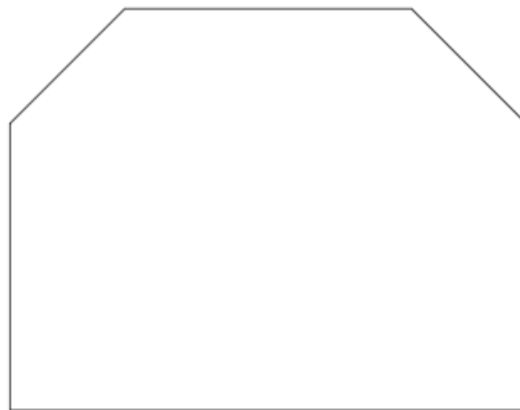
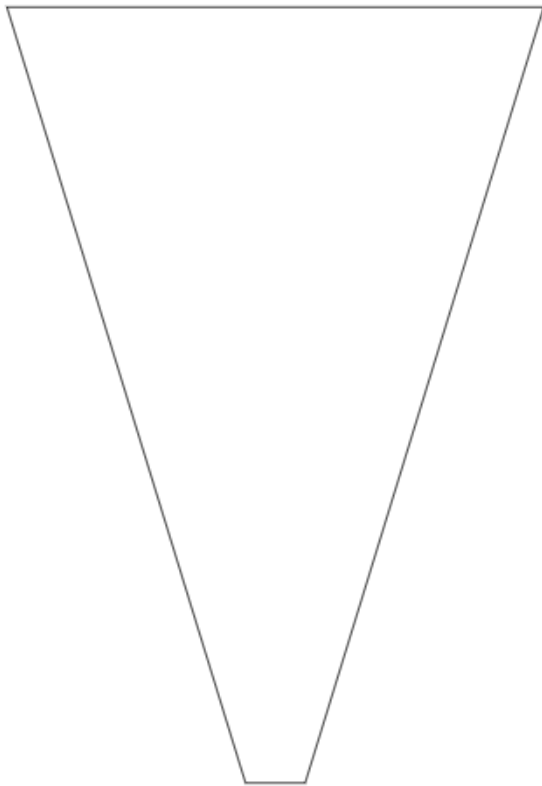
orange

(3,12) (12,12)  
(8,25) (7,25)

red

(7,1) (8,1)  
(9,2) (9,3)  
(8,4) (7,4)  
(6,3) (6,2)

## Instructions



Colour the grid light blue using a coloured pencil. Cut out these shapes and colour them, according to the instructions. Then stick the coloured shapes on the grid, in the positions given by the instructions. The order matters!