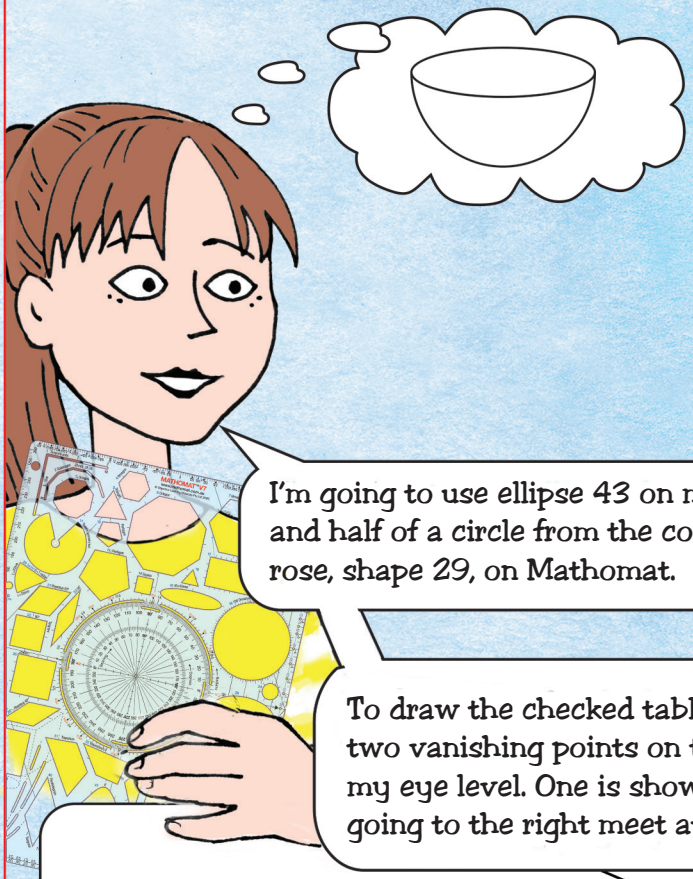
Perspective dilemma

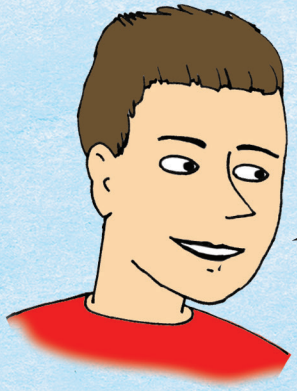
Emma is going to draw bowls on a table.

Allow time for mental imagery to develop.

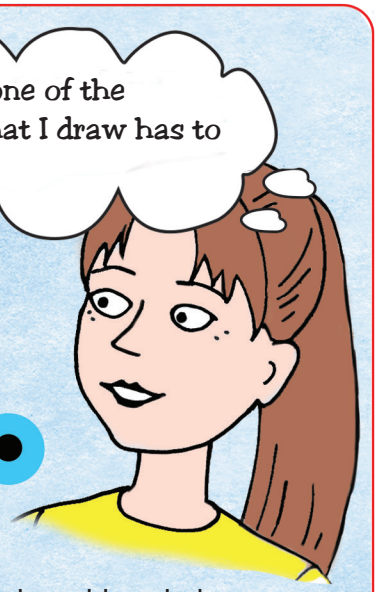


Draw a bowl in the box above using Emma's suggestion from Mathomat.

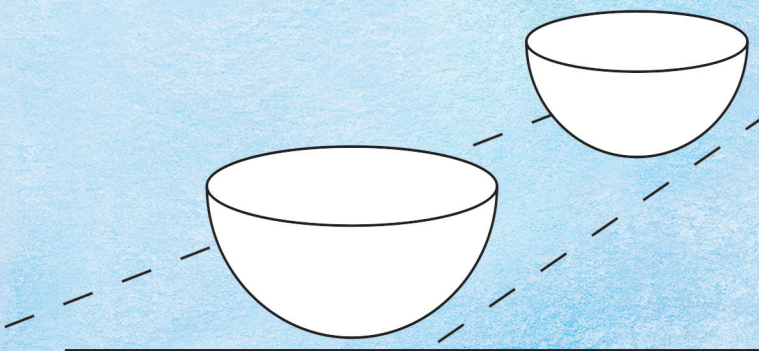
Mattie to the rescue!



The two physical bowls drawn here are identical, Emma.

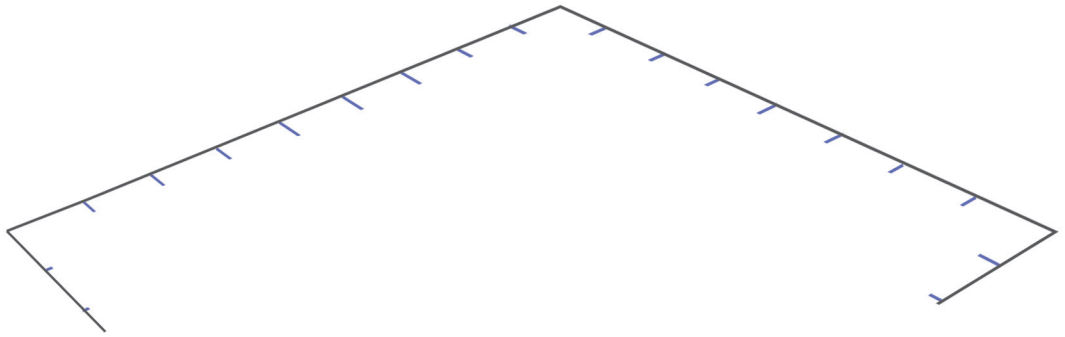


Does that mean one of the physical bowls that I draw has to be made bigger?

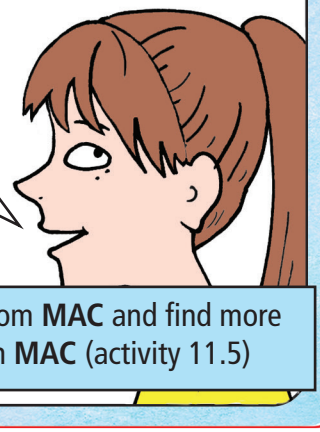


The problem is that, although the two physical bowls that Emma has drawn are the same size, the mental bowls Emma sees in her 'mind's eye' are perceived to be different sizes. This is because of the way that she conceives the background.

Find the two vanishing points to complete this table: one point will be off to the right so attach a sheet of paper temporarily to this page and draw the **horizon** in first with the ruler (it will go through the vanishing point shown).



Look at your Mathomat. Which ellipse and circle will make a larger bowl?



Now draw in the bowls so that the **perception** is that they are the same size (work in pencil first).

You can print this out from **MAC** and find more about optical illusions in **MAC** (activity 11.5)