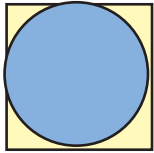
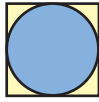


The shapes in your Mathomat template are designed to combine with each other, to be inscribed or circumscribed, and some will tessellate. Here are examples of the possibilities (shape numbers are shown for the V7). Draw them to familiarise yourself with your new template.

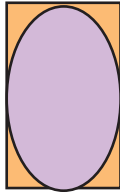
The centre of the *inscribed* circle is the same as the centre of the square which *circumscribes* it. This is the *circumcentre*.



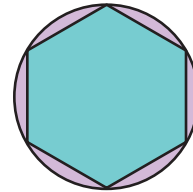
10 and 22



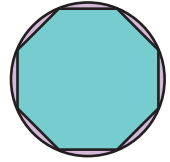
24 and 14



17 and 35

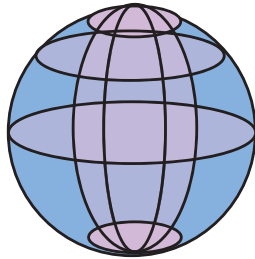


7 and 11
4 and 10

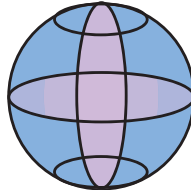


3 and 29

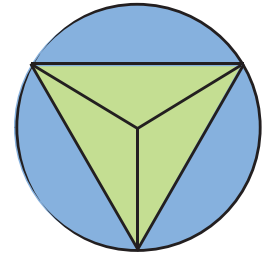
The numbers show the shapes as they are numbered on Mathomat V7. Can you find and draw all these combinations?



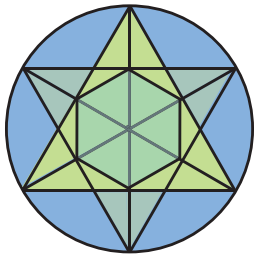
11, 15, 35, 26 and 39



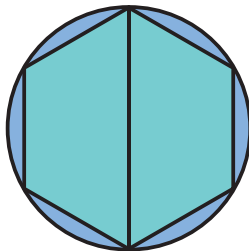
35, 39 and 45



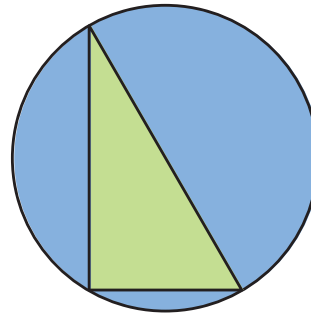
11 and 33



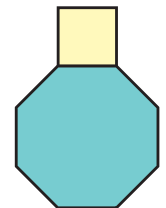
4, 11 and 33



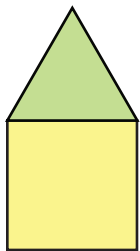
11 and 31



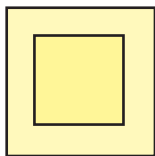
36 and 18



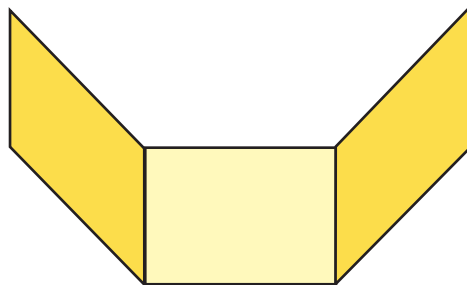
6 and 22,
3 and 14



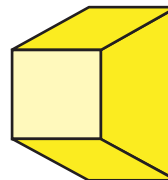
14 and 16
5 and 22



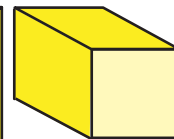
14 and 22



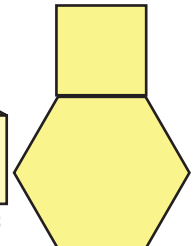
30 and 40



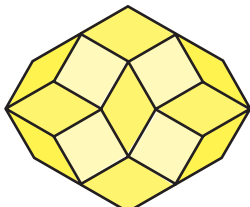
23, 22 and 31



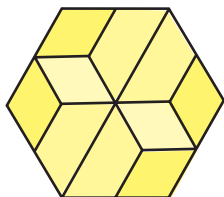
21, 22 and 23



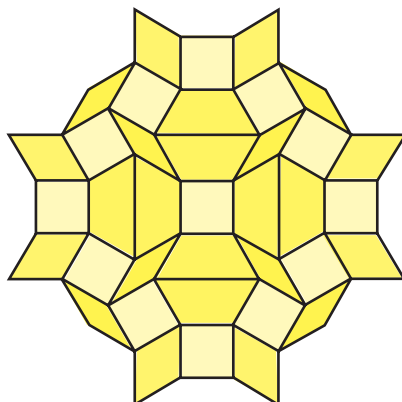
4 and 14
7 and 22



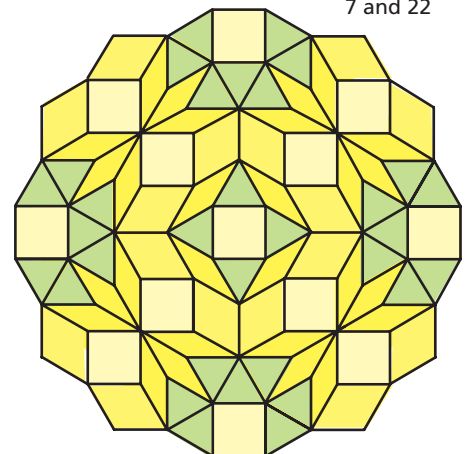
shapes 21, 22 and 23



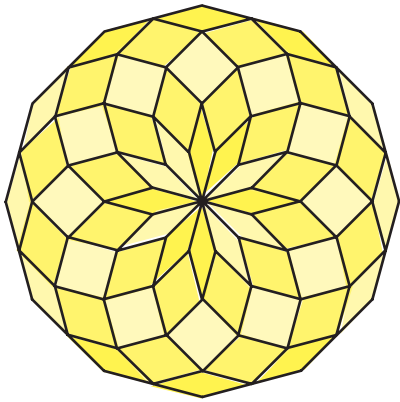
shapes 21 and 31



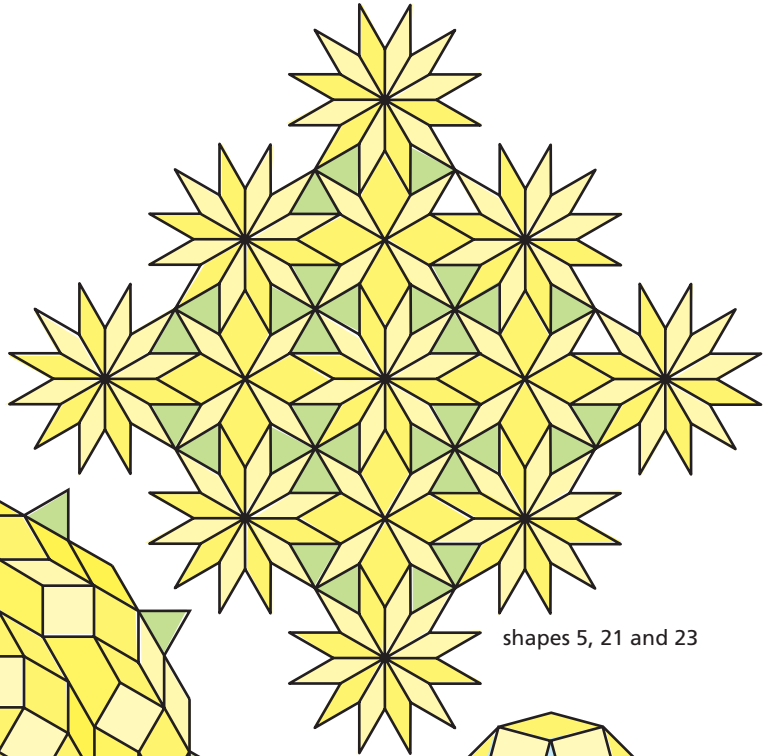
shapes 21, 22, 23 and 31



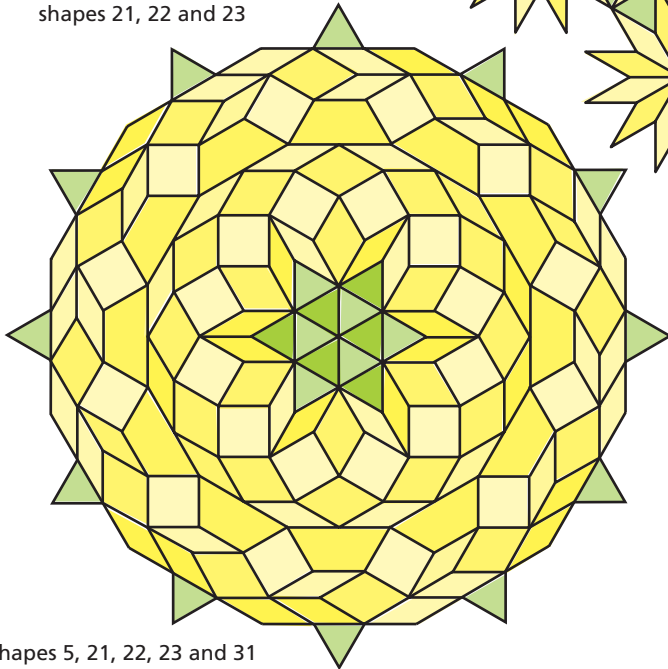
shapes 5, 21, 22 and 23



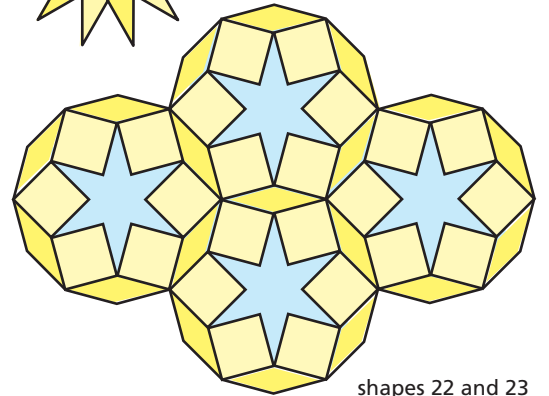
shapes 21, 22 and 23



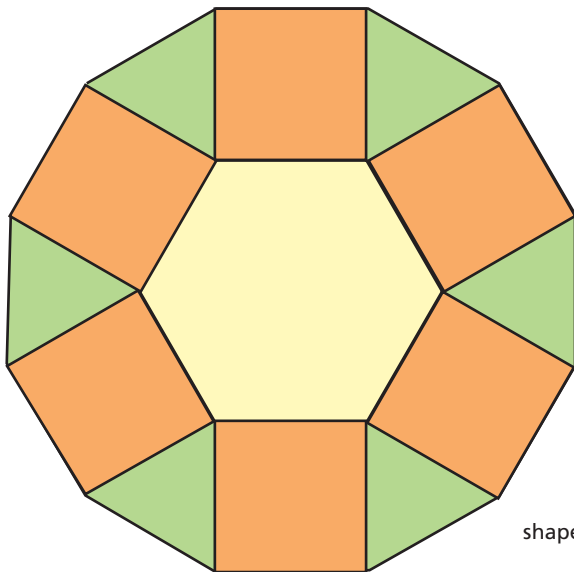
shapes 5, 21 and 23



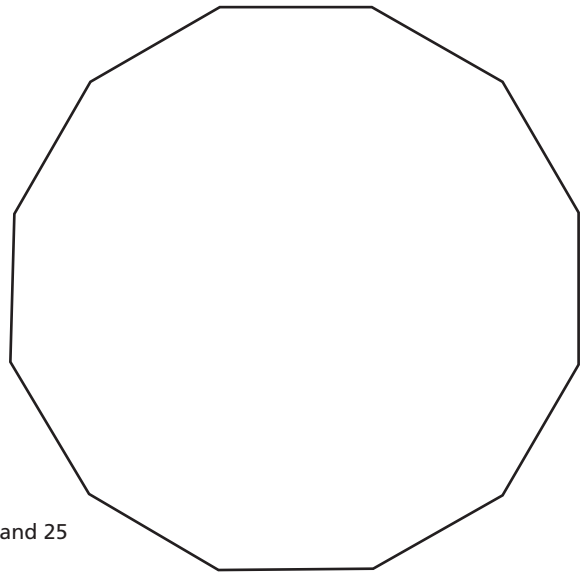
shapes 5, 21, 22, 23 and 31



shapes 22 and 23



shapes 5, 7 and 25



This dodecagon pattern was made by starting with a hexagon.

Make a pattern inside this dodecagon. Use 20mm sided pattern block shapes from V7 or V5. See next page for help finding these shapes.