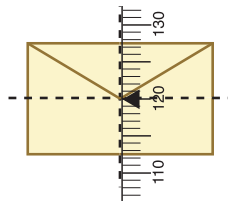
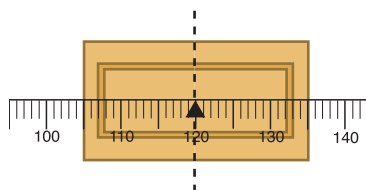
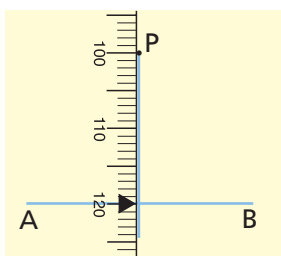


... as a ruler and set square you can use:

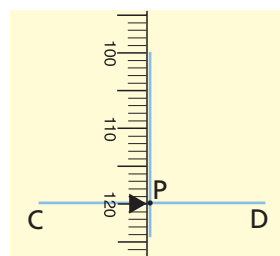
- the millimetre edge on Mathomat to measure length and to draw symmetrical diagrams,
- draw perpendicular lines like the ones below (use the left-hand edge and the centre line of the Mathomat along with the mm ruler edge).



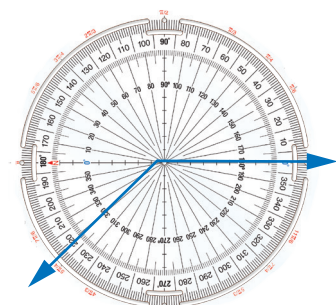
From a point P outside the line AB



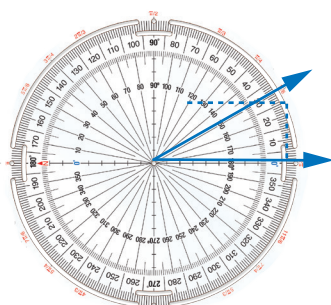
From a point P in the line CD



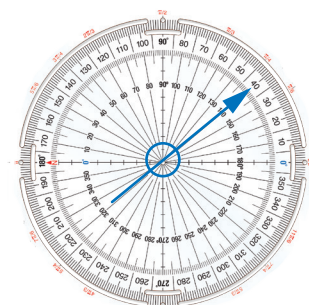
... as a protractor, you can:



- measure and construct angles



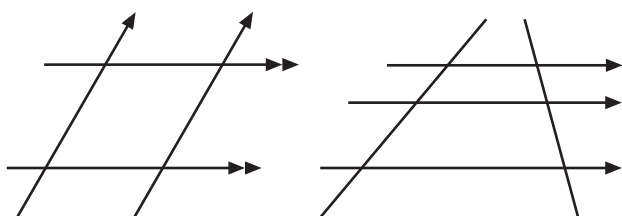
- study unit circle trigonometry



- measure bearings

... as a parallel ruler:

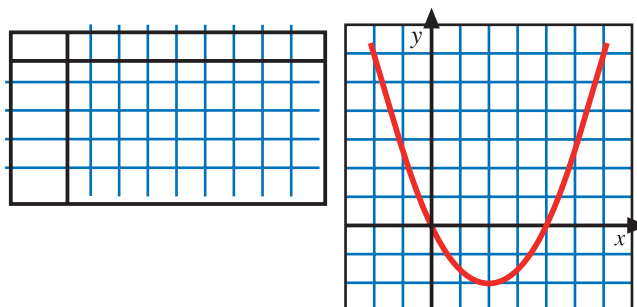
- the parallel line guides, on the right-hand side of Mathomat, are 1 cm apart.



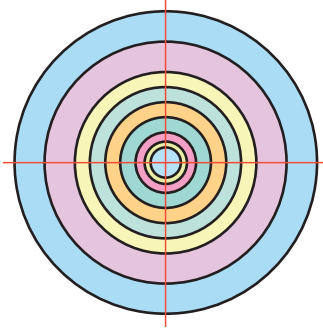
They can be used for drawing sets of parallel lines, and ones at intervals.

... as a hatching template:

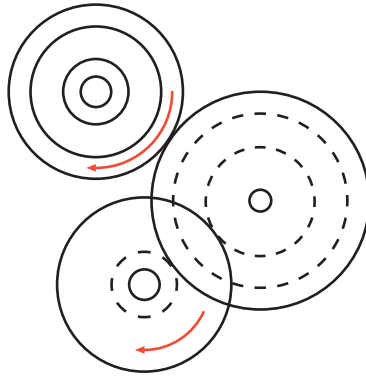
- use the parallel lines for quickly drawing up grids for tables and graphs.



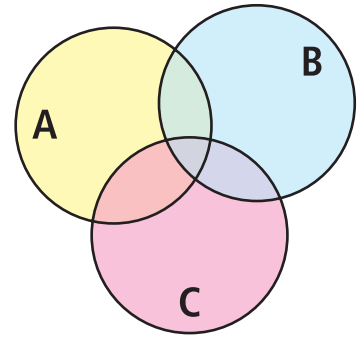
... as compasses to draw any diagram that needs circles and arcs:



concentric circles

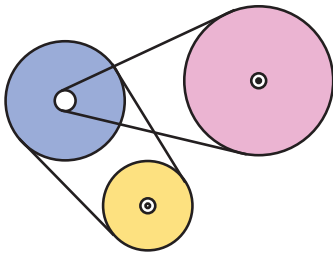


gears

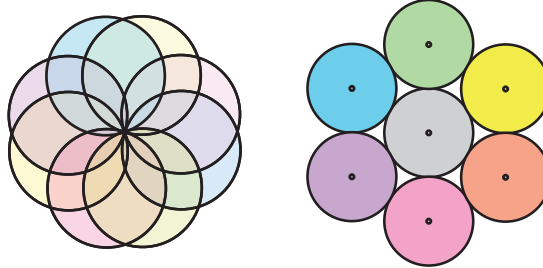


Venn diagrams

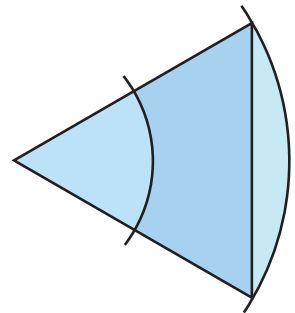
... as a compass (continued)



pulley systems



circular designs



sectors/segments

Using Mathomat for geometric construction

Look at this video on the Mathomat website, Lily ...

...Professor Tisdell has designed a great geometry tool for use in Mathomat. I found it on Chris Tisdell's Video Tutorials...



Mine is broken.

It looks like it is more accurate and easier to use than a compass.

Let's use our Mathomat templates to do one of Professor Tisdell's constructions.