

**YOU & MATHS** **Equidistant** Given two different points  $A$  and  $B$ , describe how to construct 10 different points that are equidistant from  $A$  and  $B$ .

Set your compass for a distance a little longer than a half of the length of  $AB$ .

Draw two circles by pointing a compass first in  $A$  and then in  $B$ , both times with the same compass width. The points where the two circles intersect are equidistant from  $A$  and  $B$ .

If you repeat the process choosing a different compass width, you can get as many different points (actually pairs of points) as you want that are all equidistant from  $A$  and  $B$ .