

Question 2: Four circles

Petra is using a software application to draw some nice patterns. At the start there is a single circle in the middle of the screen (Figure A).

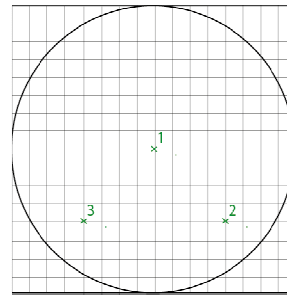


Figure A

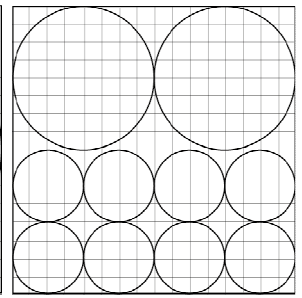


Figure B

Every time she clicks on the centre of a circle, that circle divides into four smaller identical circles. The circles that appear have a radius equal to half the radius of the previous circle. When she clicks on the points 1,2, 3 in that order she gets Figure B.

Use the figure in the worksheet and mark the points 4 up to 11 that Petra needs to click on to get figure C.

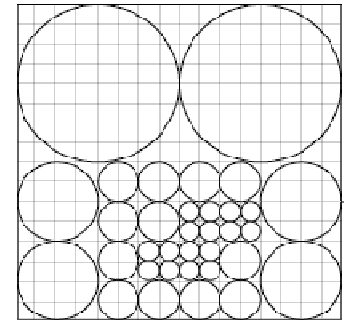


Figure C