

‘Bad apples’ extension ideas for secondary students

<http://topdrawer.aamt.edu.au/Reasoning/Big-ideas/Visualisation/Visualisation-of-information/Bad-apples>

Change the position of the bad apple in the array.

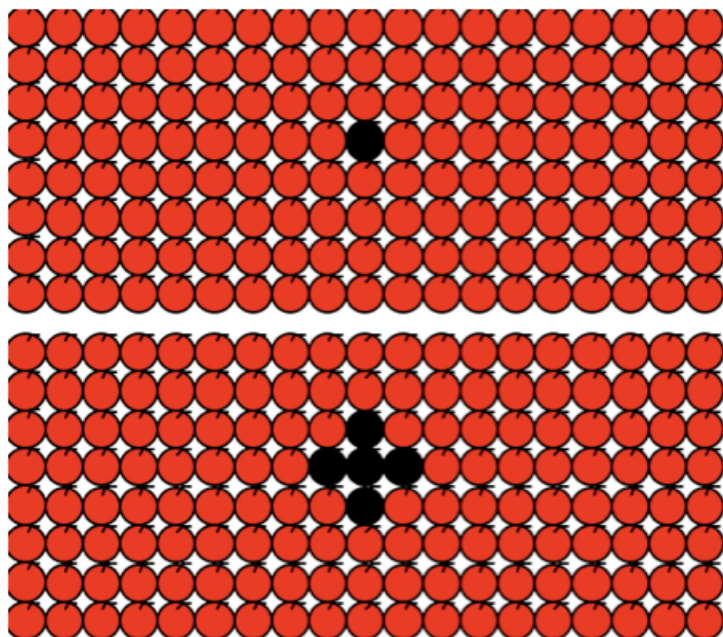


Image: M. Horne, for the ‘In Teachers’ Hands’ project (AAMT Inc.)

What would happen if the problem were moved into three dimensions, with the bad apple halfway along one edge?

What would happen if the problem were moved into three dimensions, with the bad apple being one vertex?

What would happen if the problem were moved into three dimensions, with the bad apple in the middle of the middle layer?

These problems could be explored with geometry software. You can download *Geogebra* from <http://www.geogebra.org> or use other software packages such as *Cabri Geometry* or *The Geometer’s Sketchpad* if your school has the necessary software and licence.

