

## Notes for Hidden numbers

### Teaching notes

This activity is suitable as a display and class discussion activity.

Each screen has a magic window which can be moved to reveal a small proportion of the number square or similar below.

Invite pupils to make conjectures about 'what lies beneath', using their knowledge of number squares and relationships between numbers in them to try to solve them.

Allow as many answers as pupils are prepared to give, as long as their answers have some mathematical reasoning.

By moving the window you should be able to rule out some contenders gradually.

The files are not arranged in order of difficulty, and could also be a starting point for a 'how many different ways' type of discussion.

### Teaching points

- The key feature of this lesson is to develop reasoning – so pupils must feel secure about offering conjectures without fear of ridicule.