

Applying the number grid patterns activities



1 Fill a rectangular piece

Give students a rectangular fragment with a couple of anchors. They fill each cell from the digit patterns, using the full grid only to check afterwards.

"Fill each cell – right-hand digit for the column, left-hand digit for the row."

"Check with the full grid – did any cell really need it?"

2 L-shapes and T-shapes

Give students irregular fragments – L-shaped and T-shaped. They reason about where the column and row patterns run before placing anything, then fill.

"Where does the column pattern take you from the anchor? Where does the row pattern go?"

"Explain one cell – which digit gave the row, which gave the column?"

3 One anchor only

Give an irregular fragment with a single anchor. Students fill every cell from that one number, talking through it before they write.

"Only one number to start from. What does its right-hand digit tell you? Its left-hand digit?"

"Which cells can you fill straight away? Which need both directions first?"

4 Non-example: find the errors

Give a fragment with some numbers in the wrong column or row, or with reversed digits – and one placed correctly. Students find the errors and fix them.

"Some numbers here are in the wrong place. Which digit pattern was broken?"

"Where should it go – and how do you know without the full grid?"

Applying the patterns — rectangular piece

Print on A4. The shaded cells are anchors. Fill each blank cell using the patterns — right-hand digit for the column, left-hand digit for the row.



Fill the blanks — anchors 42, 45, 62

42			45
62			

Applying the patterns — L-shape and T-shape

Print on A4. Fill the blanks in each shape from the anchors. Say which digit gives the row and which gives the column.



L-shape – anchors 33, 63, 66

33			
63			66

T-shape — anchors 21, 25, 53

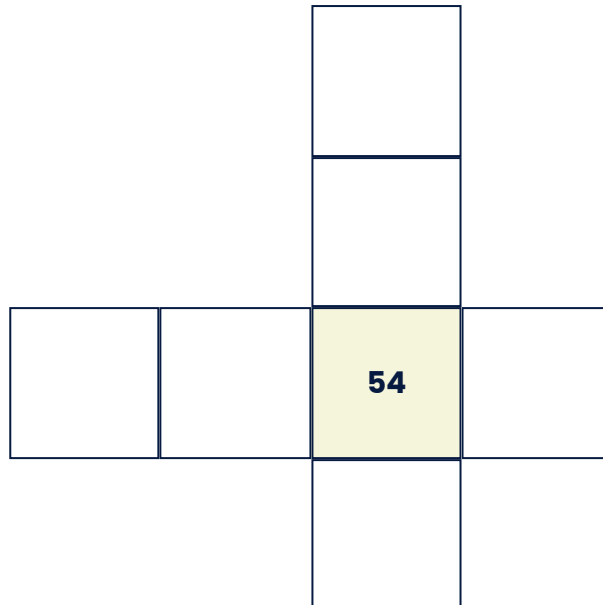
21				25
		53		

Applying the patterns — one anchor, and find the errors



Print on A4. Fill the cross from the single anchor. Then check the bottom piece — two numbers are in the wrong place. Find them, and say which digit pattern was broken.

One anchor only — 54



Find the errors — which two are wrong?

70	71	27	73
80	18	82	83