Mathematics

Tilted squares.

### Downloadable resource. Lesson 1 of 8.

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# Try this

How many ways can you join up 4 vertices on this grid to make a square?

What are the areas of these squares?







## Independent task

1) Find the area of the tilted squares in the grids.









2) Continue the pattern and draw the next tilted square inside the grid. Find the area of the tilted square you drew.





### Explore

Zaki uses a 5 x 5 grid and makes some squares by moving the vertex around the edge of the grid.









- What are the areas of these squares? 1) How many different areas are made?
- Repeat this with some larger grids 2) (e.g.  $6 \times 6$ ,  $7 \times 7$ ), what do you notice?



