

Challenge 4 : Equally

Hervé and Angèle both have a sheet of squared paper.

On his sheet Hervé has drawn a big square. He has coloured in all the small squares in his big square.

On her sheet Angèle colours in 1 square with green, 2 squares with red, 3 squares in blue. She continues like that. Every time she changes colour she colours in one square more than she did with the previous colour. She does not use the same colour twice.

After having used several colours she sees that she has coloured in just as many small squares as Hervé.

**How many squares has Angèle coloured in on her sheet of paper?
Justify your answer.**

