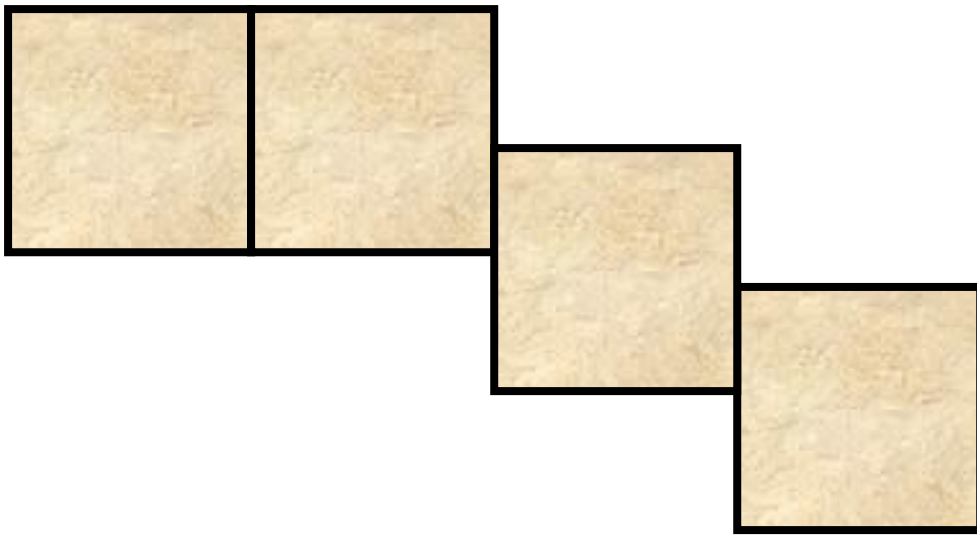


Joining squares

For Y4/Y5/Y6

Pupils have four squares and are allowed to join them full edge to full edge or half edge to half edge, i.e.



What is the perimeter of this shape? (12 units)

What are the smallest and the largest perimeters that can be made? (8 units and 13 units)

Can pupils make all the whole number perimeters between the smallest and the largest?

How would the joining rule need to change to gain a perimeter of 10.5?

What happens if we use 5 or 6 squares?

Explore how smallest perimeters change for different numbers of squares from 4 squares up to 20 squares.