

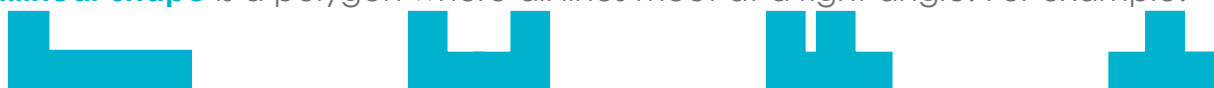
Activity:

The aim of this activity is for children to practise calculating the area of rectangles and rectilinear shapes. Children are able to use each of the bricks more than once to complete the activity. They are able to rotate and flip the blocks to complete the pattern.

Vocabulary:

The **area** is the measurement of the surface of a 2D shape. In Year 4, area is calculated by counting squares and is measure in squares.

A **rectilinear shape** is a polygon where all lines meet at a right angle. For example:



A **polygon** is a 2D shape made of straight lines.

A **right angle** is an angle that measures exactly 90 degrees and is equal to a quarter turn.

Supporting resources:

You can watch a video tutorial about counting squares on kids.classroomsecrets.co.uk >> **Year 4 >> Maths >> Area >> Video Tutorials.**

You can watch the answer explanation video which takes children through this activity and ways to answer it on <https://www.youtube.com/user/ClassroomSecretsLtd/> **playlists >> Year 4 Playlist >> Counting Squares Answer Explanation.**

Other resources:

If your child enjoyed this activity and wants to try more activities linked to this learning, you can sign up for £4.83 per month on classroomsecrets.co.uk/membership.

Check out our daily timetable for Year 4 home learning activities on kids.classroomsecrets.co.uk >> Home Learning Timetable.

Counting Squares

1. Brad the Builder is designing a driveway.

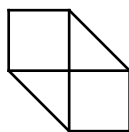
The customer has decided that they want to use a combination of bricks A, B and C to fill their drive.

Brad knows that the drive has a total area of 30 squares and is a rectilinear shape.



I need to make sure the combination of bricks that I choose covers the whole area of the drive!

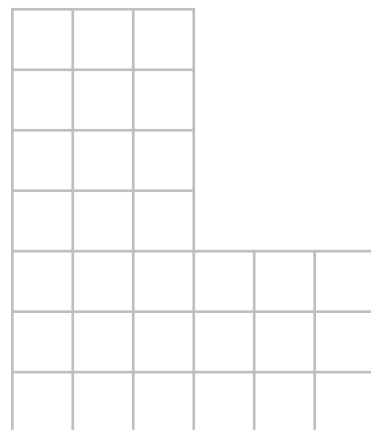
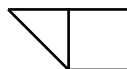
Brick A



Brick B



Brick C



Investigate the different combinations of bricks A, B and C that can be used to cover the driveway. You can rotate the bricks to fit in the shape.

Various answers, some examples shown below.

