

Counting Squares

1. Brad the Builder is designing a driveway.

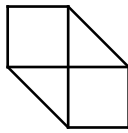
The customer has decided that they want to use a combination of bricks A, B and C to fill their drive.

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!

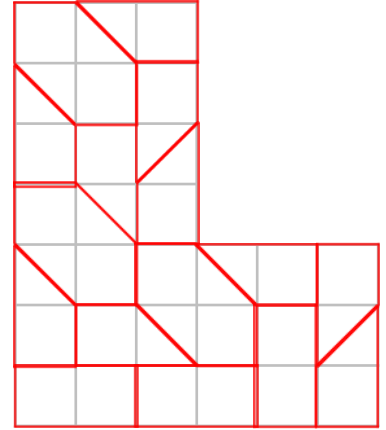
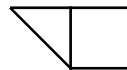
Brick A



Brick B



Brick C



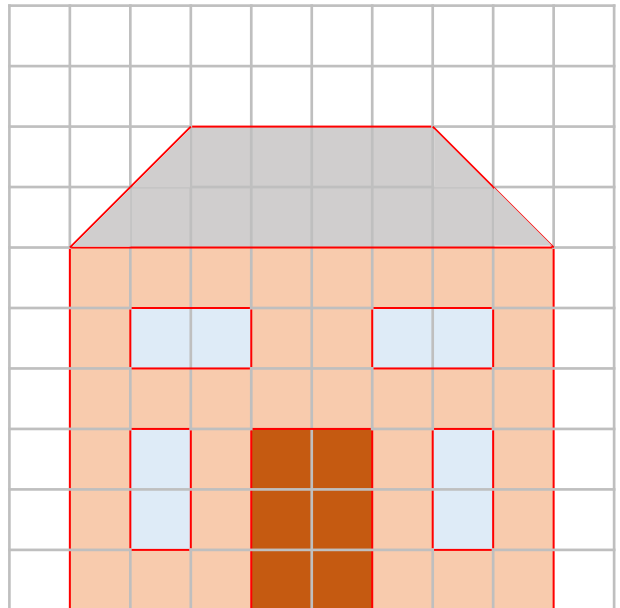
Investigate the different combinations of bricks A, B and C that can be used to cover the driveway. You can rotate and flip the bricks to fit in the shape.

Various answers, one example is shown above.

DP

2. Using the clues below, draw a house on the grid.

1. The total area of the windows is between 4 and 10 squares.
2. The total area of the door is less than 7 squares.
3. The house can be no more than 8 squares wide and 6 squares tall, not including the roof.
4. The roof uses at least 4 half squares.



Explore the different house designs that can be made and their total area.

Various answers, one example is shown above. The total area of the house is 60 squares.

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