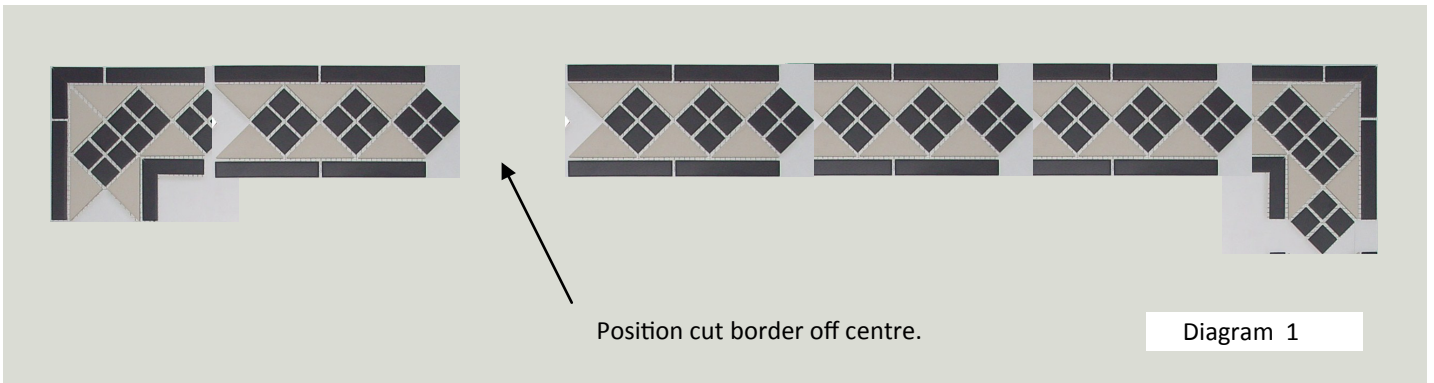


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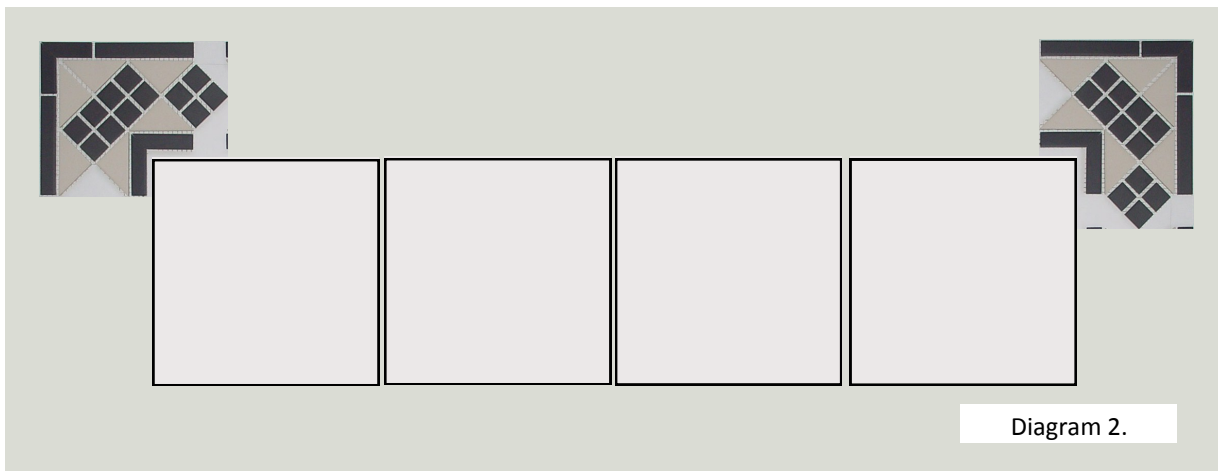


Before Starting your layout plan, please note the following:

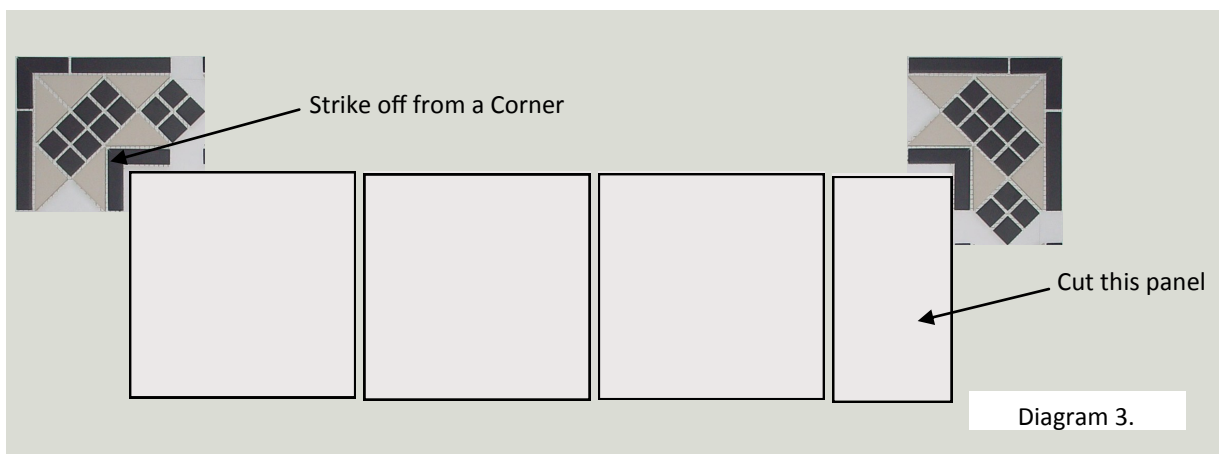
1. There are many different ways that you can arrange the tiles. There are no hard and fast rules. However, where you want to include a border you should aim to disguise the border sheet that you have to cut, by positioning it to one side of the centre on your line of borders (see diagram 1).



2. Positioning the border corners is the most difficult part of the layout plan procedure. Where possible, it is better to set out the corners so that full 300x300 panels fit exactly inside the corners (see Diagram 2).



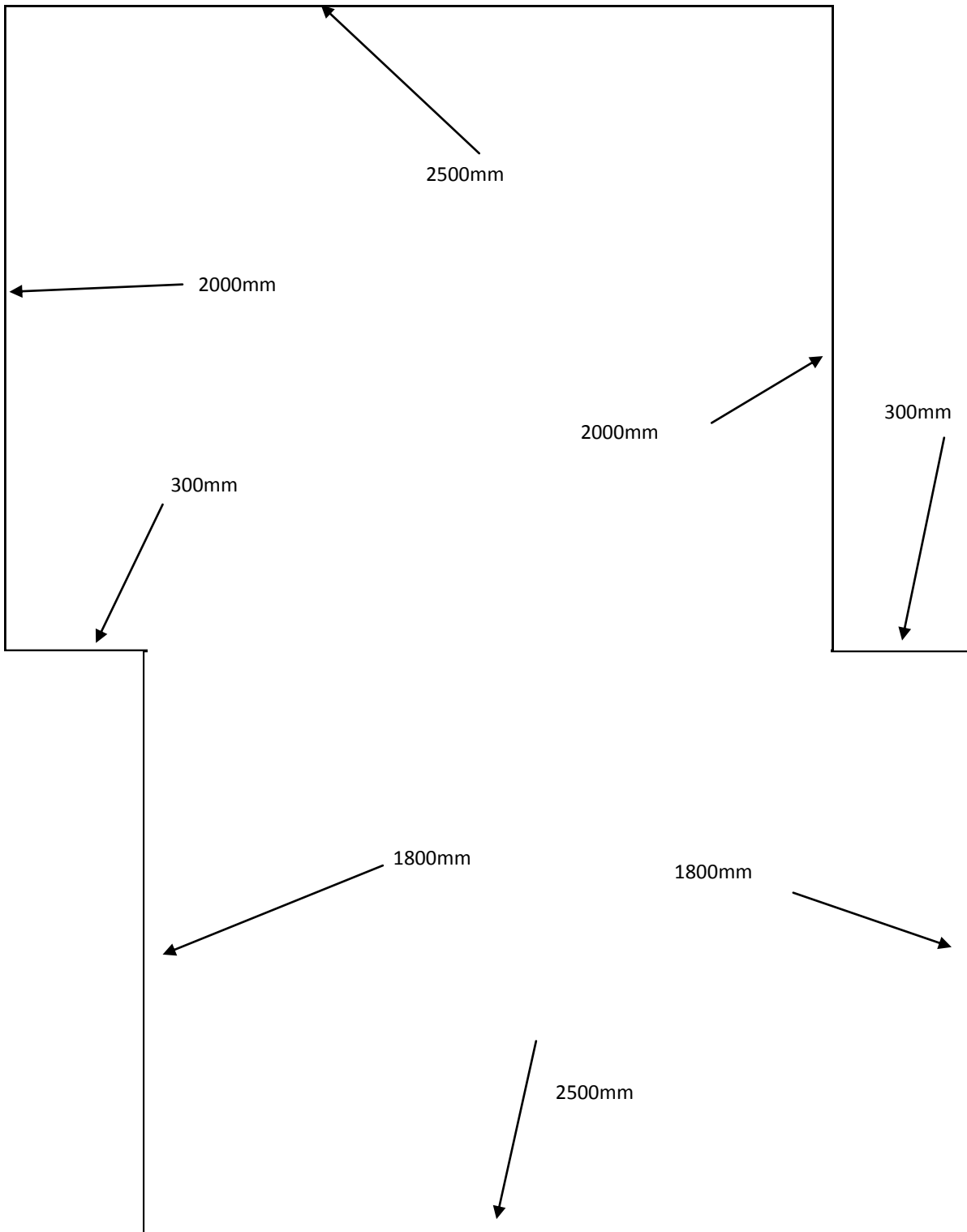
3. However, the size and shape of your room may not allow you this option, and where this is the case you may have to cut both the borders and the panels. In this situation, you should aim to avoid very small cuts and minimize cutting by striking off from one corner (See Diagram 3)



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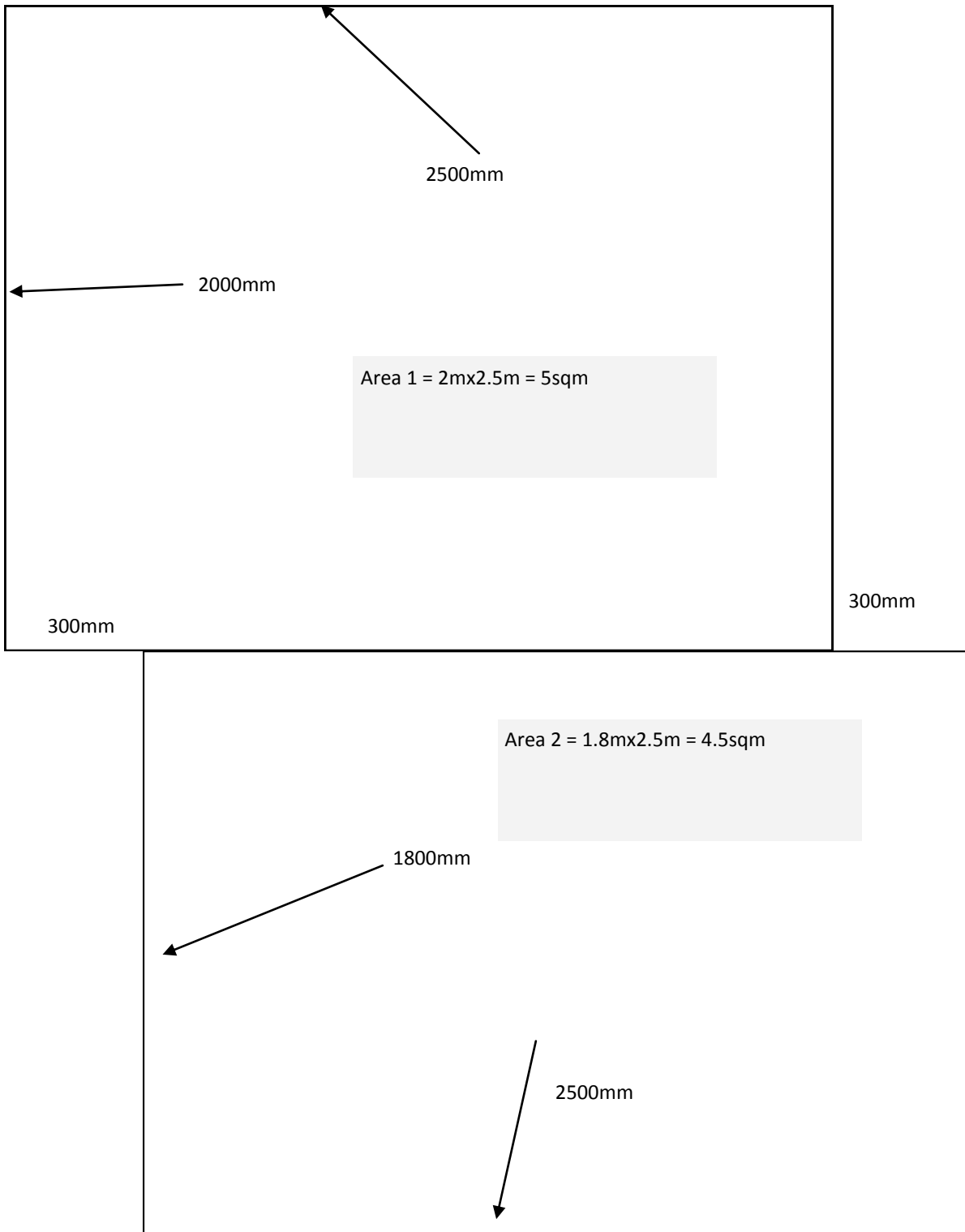
Now to get started:

Measure the room you wish to tile in millimetres.



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Work out the area and the perimeter length by dividing the room up into simple cube areas.



Total Area = Area 1 + Area 2 = 5sqm + 4.5sqm = 9.5 sqm

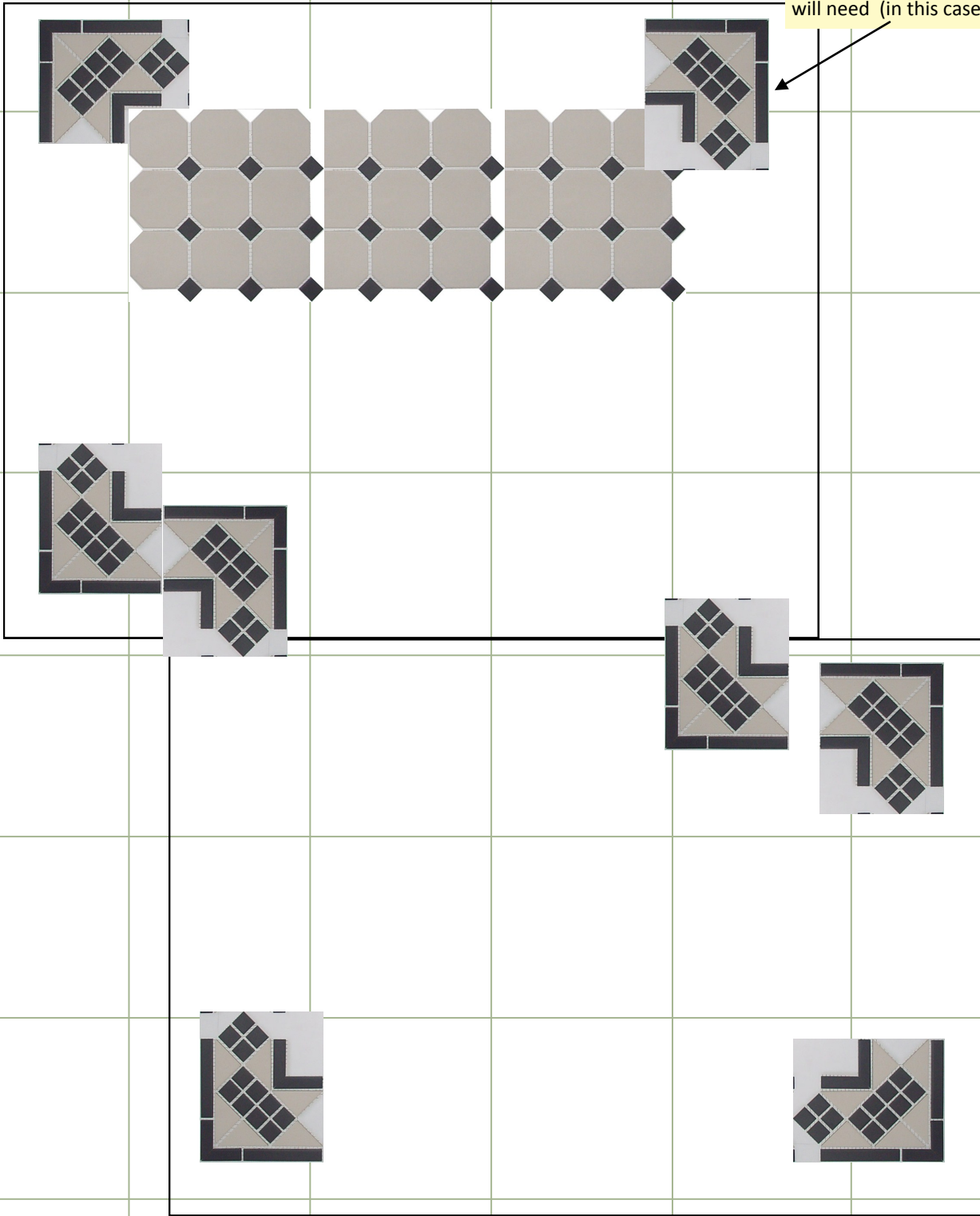
Perimeter = 2500mm + 2000mm + 300mm + 1800mm + 2500mm + 1800mm + 300mm + 2000mm = 13200mm = 13.2m

Plot out the room dimensions on graph paper.

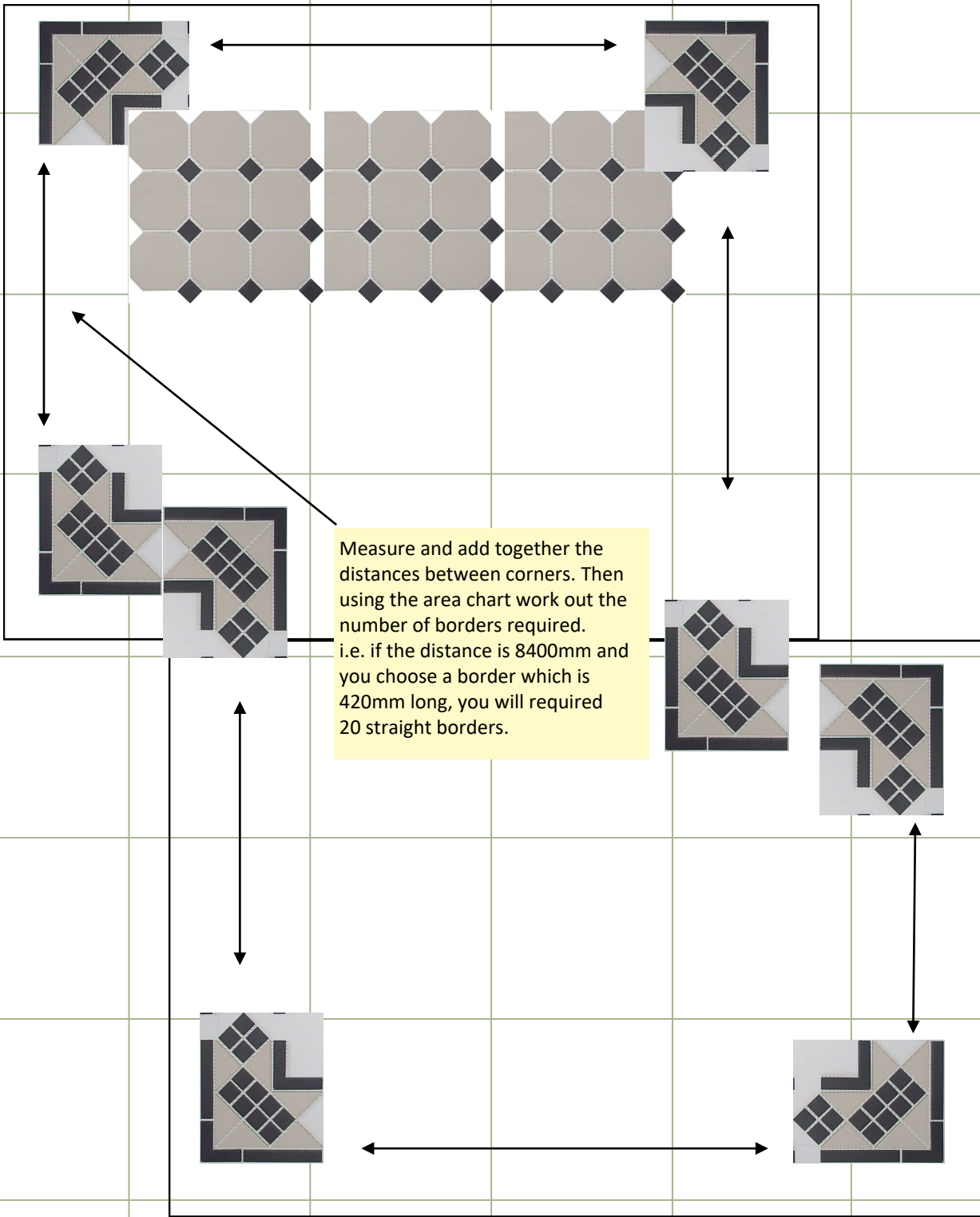
(The graph paper attached to this guide is based on a 300x300mm grid and is in proportion to the panels on the *AREA CHART found on the last page.)

Because of the limitation of working with an A4 sheet of paper you may have to buy some graph paper or photocopy the graph paper attached and make a larger sheet by cello-taping a few sheets together.

Work out how many corners you will need (in this case 8 are needed)



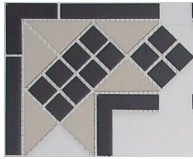
Please ignore scale on this page . The purpose of this illustration is to help you work out how many corners you will need.



Please ignore scale on this page . The purpose of this illustration is to help you work out how many borders you will need.

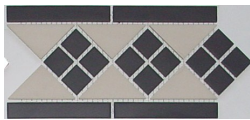
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When you know how many corners you need you can work out the area they cover using the ***Area Chart**. (Remember to divide by 1,000,000 to convert sqmm to sqm. Eg. $8 \times 42976 = 343808 \text{sqmm} = .343 \text{sqm}$)



Lisbon Corner Panel

Area: 42976 sqmm



Lisbon Border Panel

Area: 40796 sqmm

When you know how many borders you need you can work out the area they cover using the ***Area Chart**. (Remember to divide by 1,000,000 to convert sqmm to sqm. Eg. $20 \times 40796 = 815920 \text{sqmm} = .816 \text{sqm}$)

By adding the area covered by the corners (in the case above .343sqm to the area covered by the borders i.e. 816 sqm, you reach a total of 1.156sqm which is covered by both corners and borders. You can then take this figure away from the total floor area of 9.5 sqm (see below) to find out the rest of the floor area that will be covered by 300x300 mm tile panels. In this case the answer would be $9.5 \text{ less } 1.156 = 8.344 \text{sqm}$

There are 11.11 (300mmx300mm) panels per sqm, so for an area of 8.34sqm you would need 93 panels.

Total Area = Area 1 + Area 2 = 5sqm+4.5sqm= 9.5 sqm

Perimeter = 2500mm+2000mm+300mm+1800mm+2500mm+1800mm+300mm+2000mm= 13200mm= 13.2m

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So you are nearly there. You know how many corners you want (in the example 8 are needed) and you know how many borders you need (in the example we worked on the basis of needing 20 borders) and we worked out the panels required to cover the rest of the area.

What else? Well you may need some small triangles (as a general rule the quantity of triangles needed depends on the number of borders and corners needed.) Usually 3 (25x25mm) triangles go with 1 border and 1 (20x20mm) triangle goes with a corner.

We generally advise to add a few extra borders and panels, to allow for cutting but this depends on how well you do the initial calculations.

Please remember that we are pleased to advise over the phone on 01782 281617 and if you order too many tiles , you can bring what you don't need back provided they are a general stock item (please inquire) and they are returned to us in the same condition that they left the factory.

The Westminster Series Guide

Finally, we have supplied the Westminster Series for several years and many customers have sent us pictures of their finished projects. This is a selection of the some of the pictures we have received. We would be delighted to include a picture of your finished project, please email it to sales@hesmith.co.uk

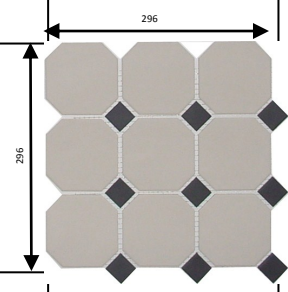
Good Luck, we hope this guide will help you.

Frederick Smith. (Managing Director)

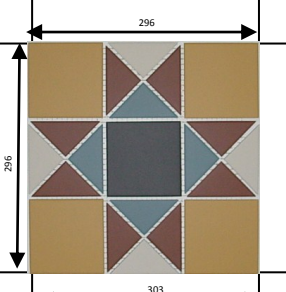


Graph paper based approximately on a 300x300mm grid. Photocopy as required.

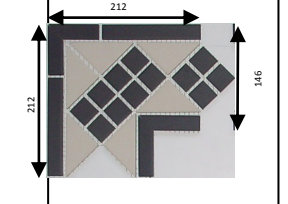




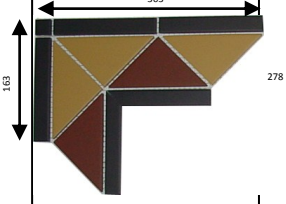
Octagon and Dot Panel
Area 87616 sqmm



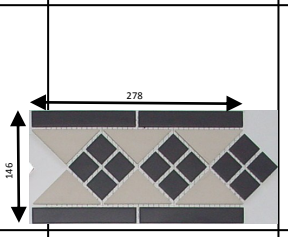
Richmond Black Panel
Area 87616 sqmm



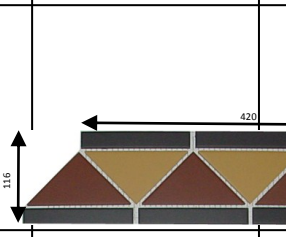
Lisbon Corner Panel
Area: 42976 sqmm



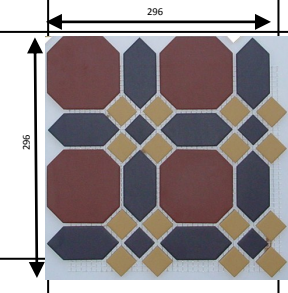
Henley Corner Panel
Area: 40918 sqmm



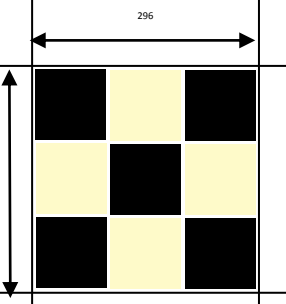
Lisbon Border Panel
Area:40796 sqmm



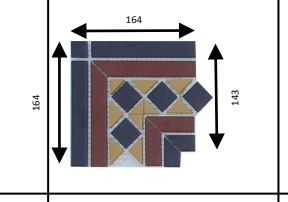
Henley Border Panel
Area: 49020 sqmm



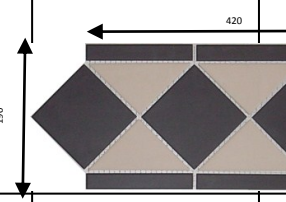
Guilford Panel
Area 87616 sqmm



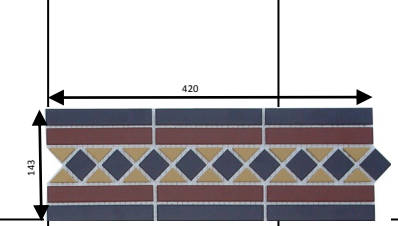
Black and White Chequers Panel
Area 87616 sqmm



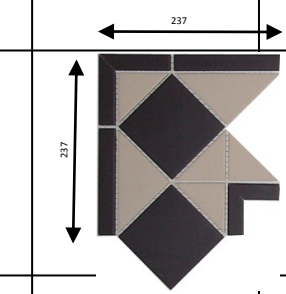
Guilford Corner Panel
Area: 26484 sqmm



Strand Border Panel
Area 78739 sqmm



Guilford Border Panel
Area: 60220 sqmm



Strand Corner Panel
Area 51528 sqmm

***AREA CHART**