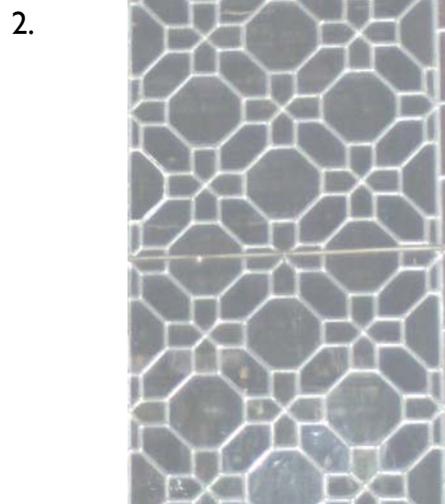


Task 1

On squared paper, draw the pattern from these stained glass windows and mark in any angles that you know.



Task 2

Explain what it means when we say shapes **tessellate**. Use the angles you found in task one to help you.

Task 3

Use squared paper to design your own stained glass window. Try to make a tessellating pattern with:

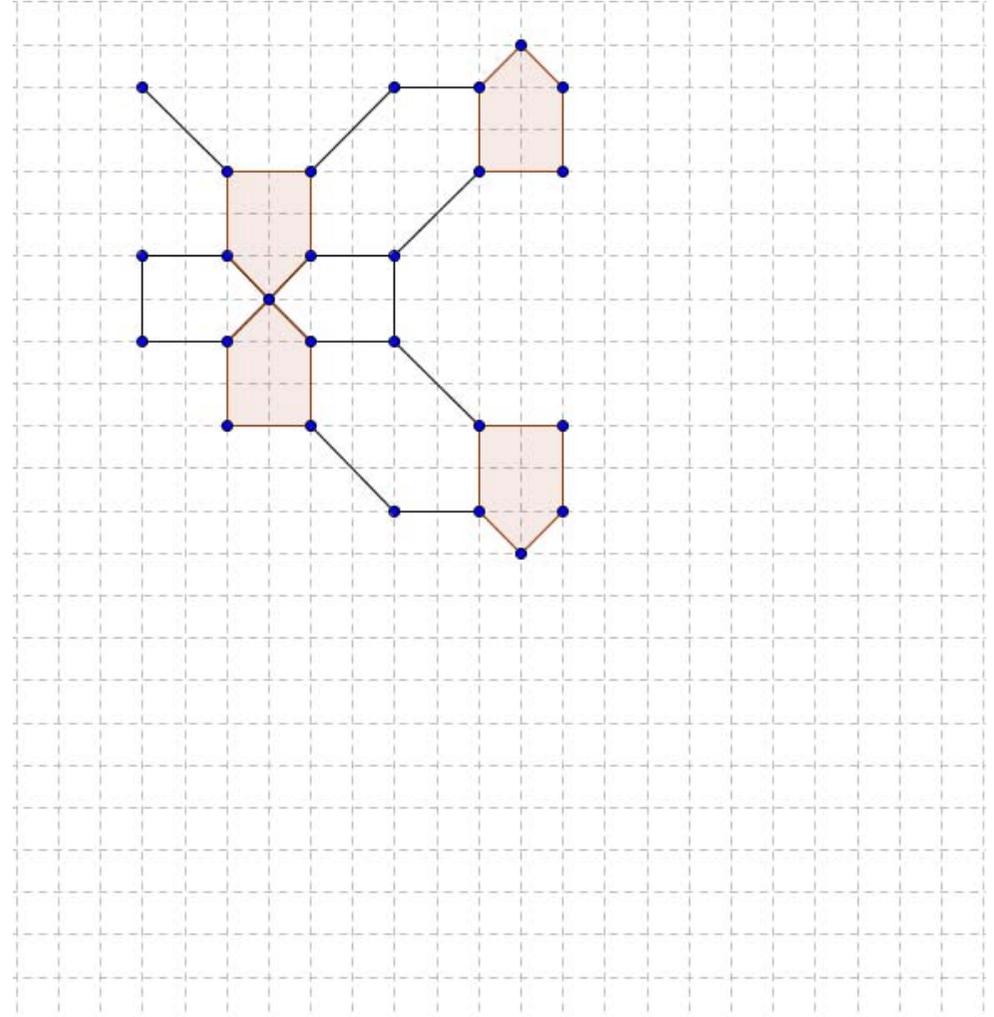
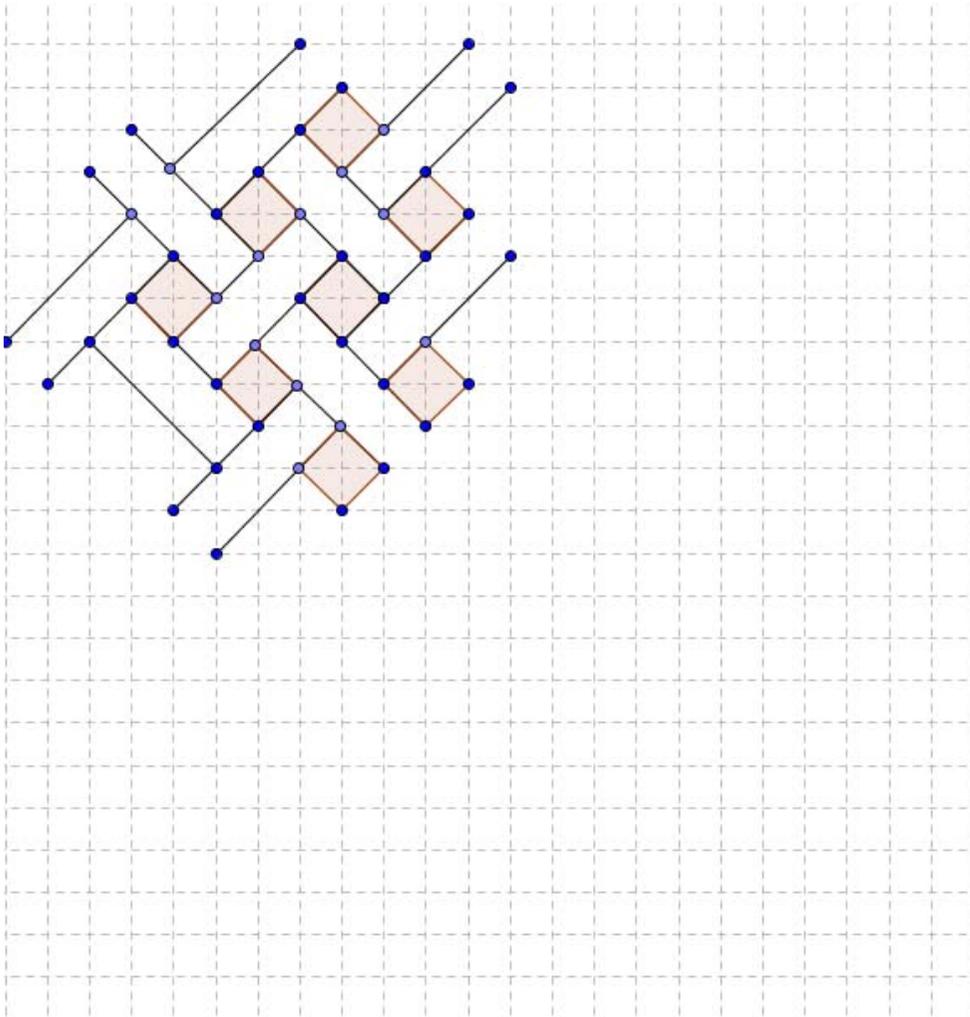
- a) 2 shapes
- b) 3 shapes
- c) 4 shapes

Next to your designs, draw each shape individually and label all of the angles.



Starting points

These diagrams show a starting point for each window. Continue the patterns to help you with Task 1.



Teaching notes

This resource can be extended to investigate angle rules such as angles round a point and angles on a line.

When drawing the designs onto squared paper, deciding on a scale to use can be a demanding part of the task. The second sheet does not have to be used, but gives a starting point for students to either copy or continue if they find the task too challenging.

These two diagrams show possible answers to Task 1.

