



Lesson 12 – Symmetric Figures

NC Objective:
Complete a simple symmetric figure with respect to a specific line of symmetry

Resources needed:
Mirrors/ squared paper/ tracing paper if needed
Differentiated Worksheets
Teaching Slides

Vocabulary:
symmetry, 2D shapes, patterns

Children use their knowledge of symmetry to complete 2D shapes split by a line of symmetry. They can use mirrors or tracing paper to help complete the patterns.

Key questions:

What will the rest of the shape look like? How can you check? How can you use the squares to help you? Does each side need to be the same or different?

★ Working Towards

Children complete a simple rectangular shape using horizontal, vertical and diagonal lines of symmetry.

★★ Working Within

Children have a range of simple shapes using horizontal, vertical and diagonal lines of symmetry.

★★★ Greater Depth

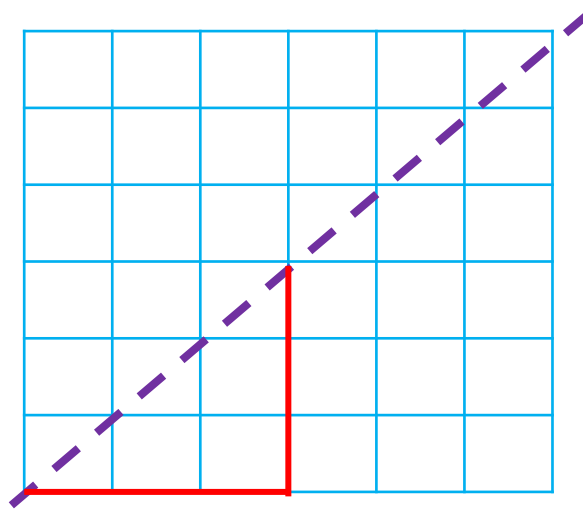
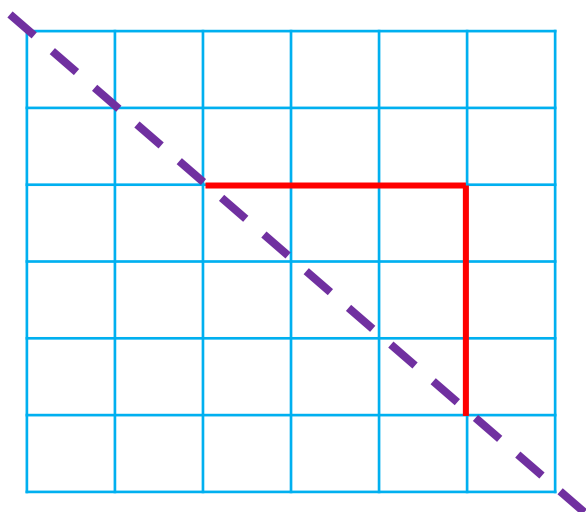
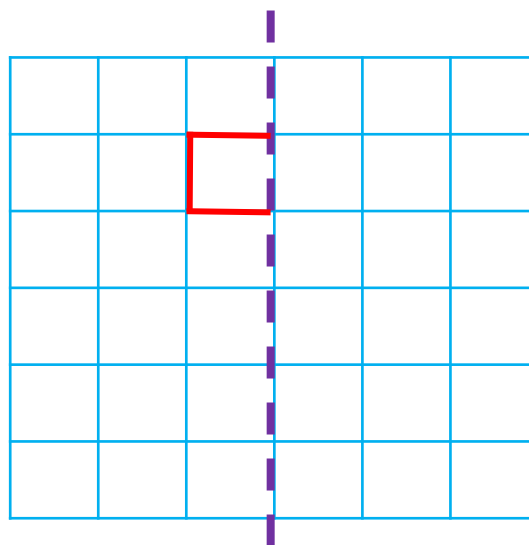
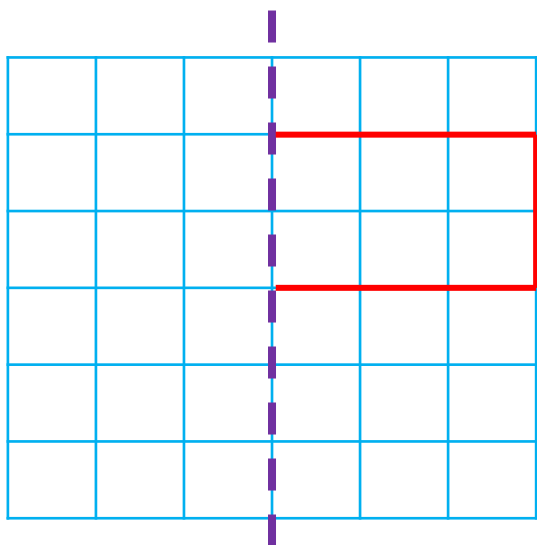
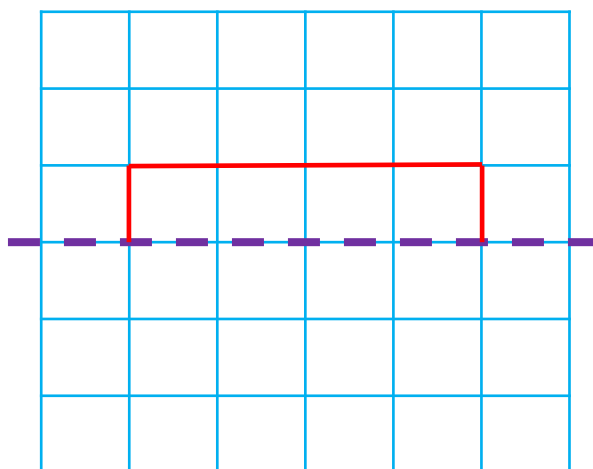
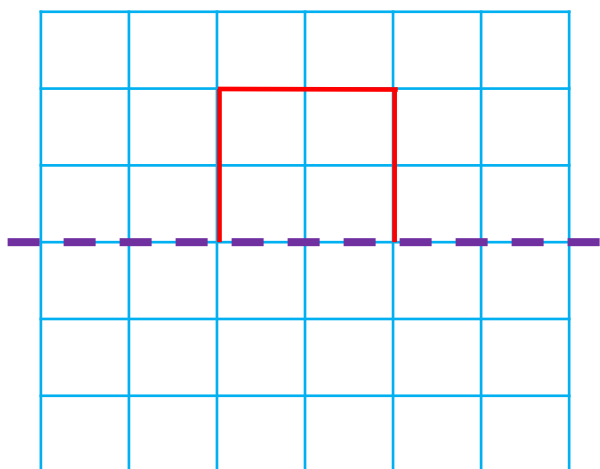
Children have a range of complex shapes to complete using horizontal, vertical and diagonal lines of symmetry.

Reasoning & Problem Solving

Children continue working on symmetry by answering reasoning tasks and finding what's the same and what's different.

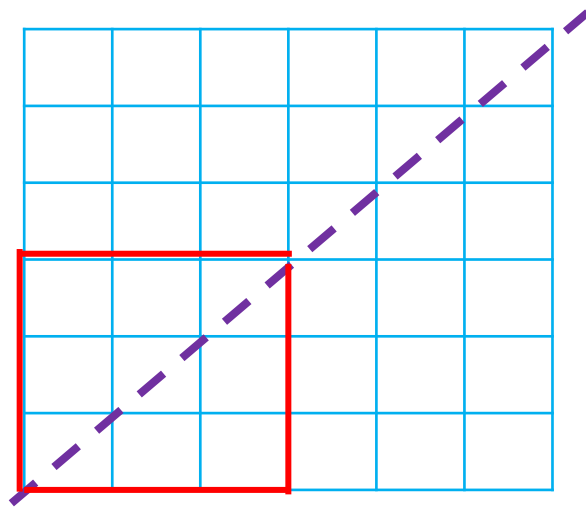
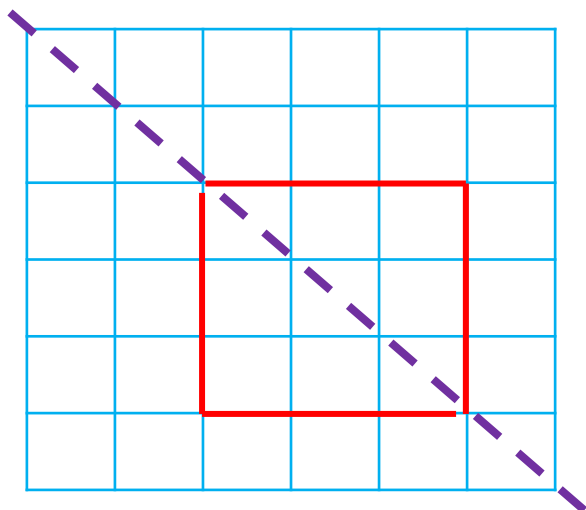
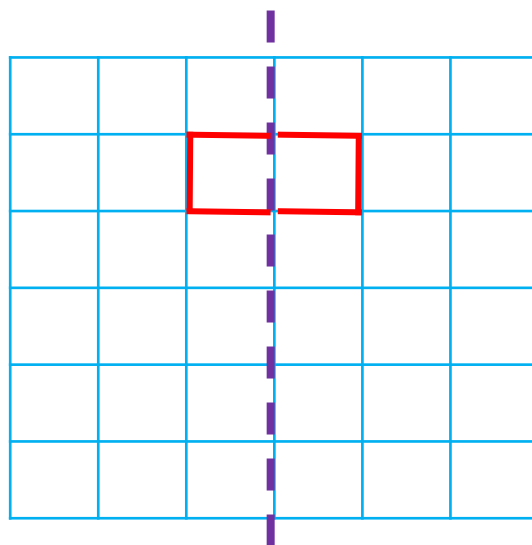
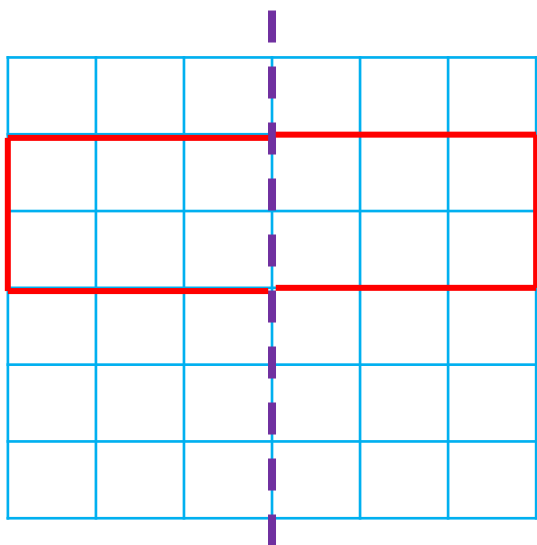
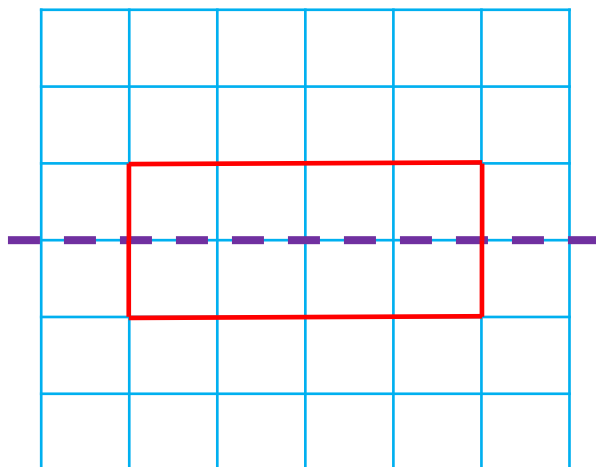
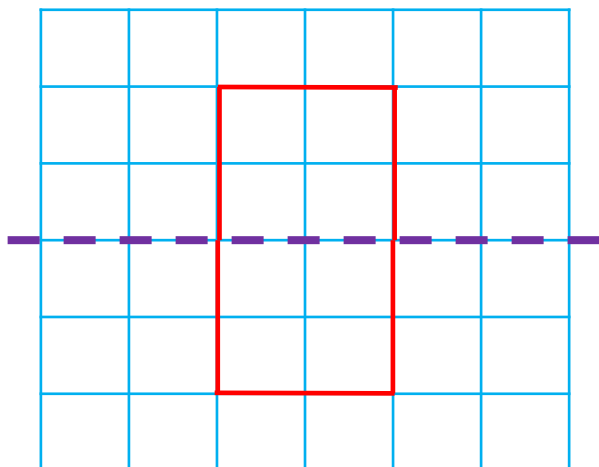


Complete the shapes according to the line of symmetry.



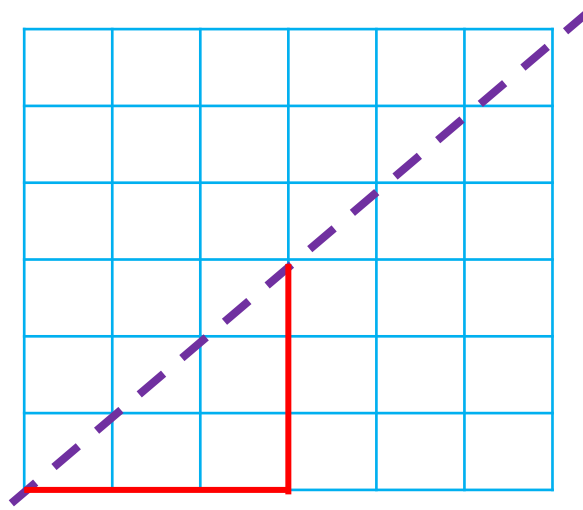
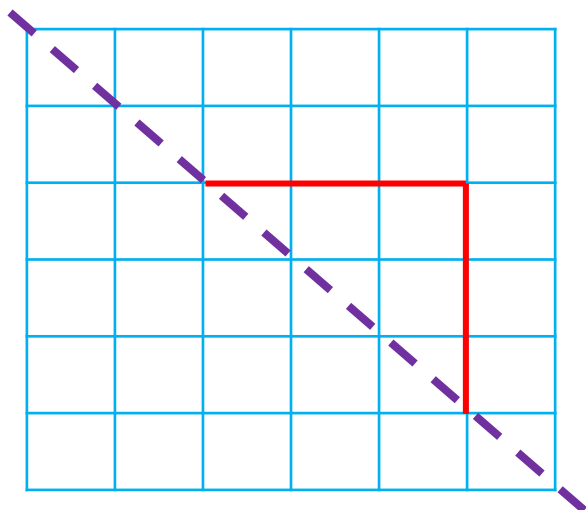
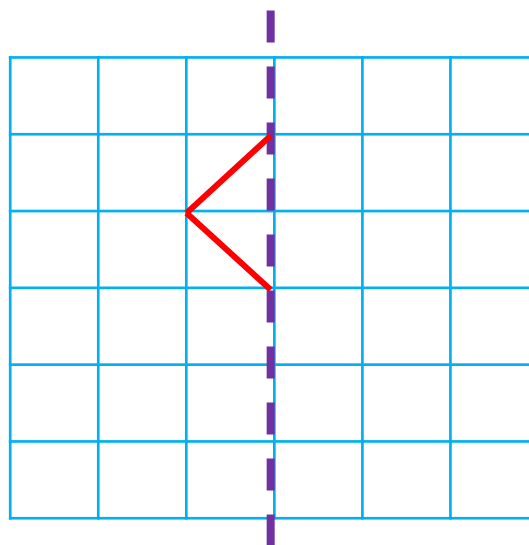
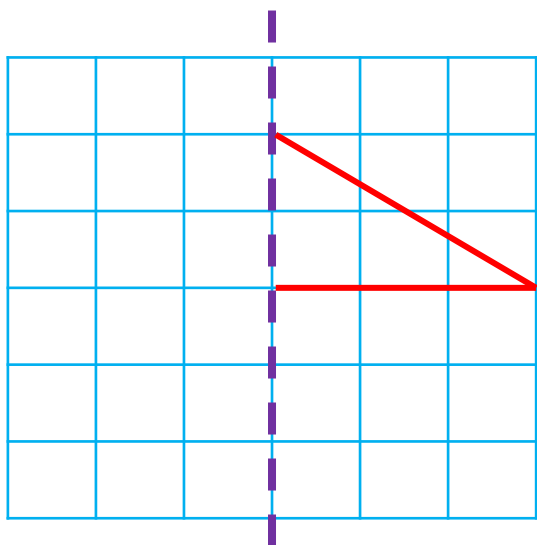
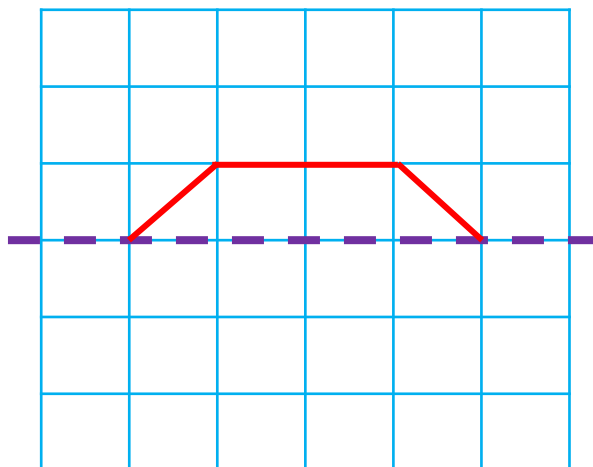
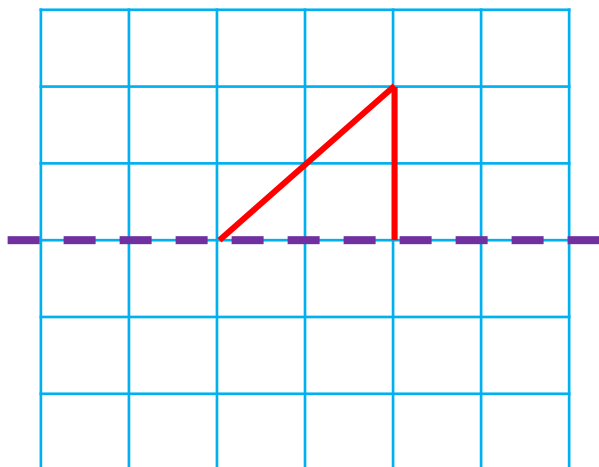


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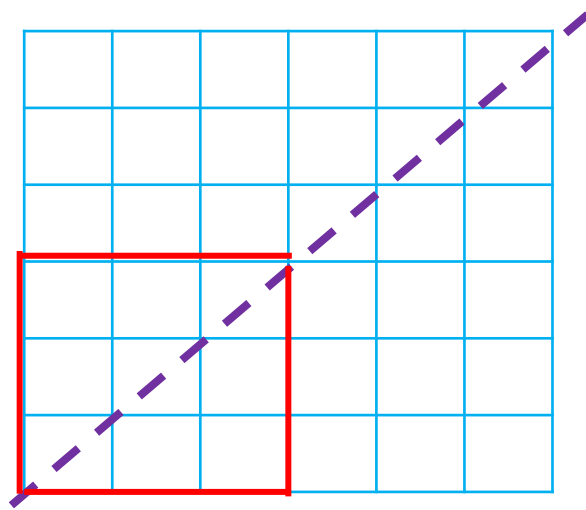
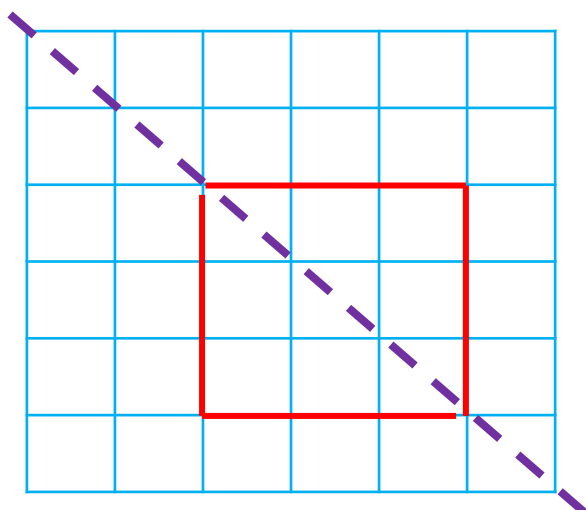
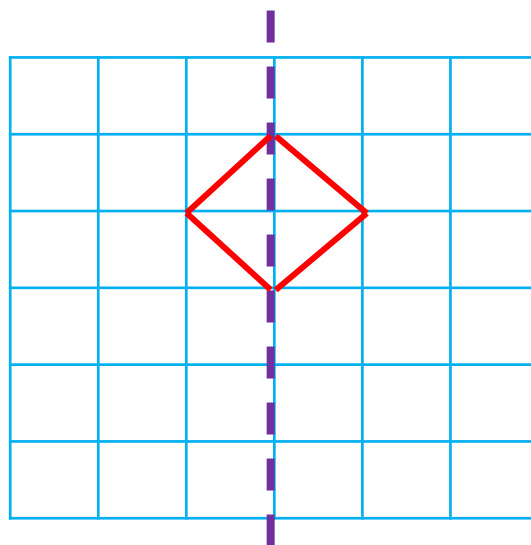
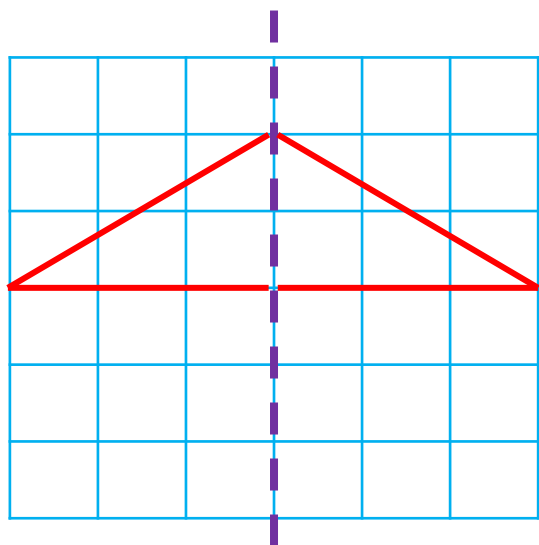
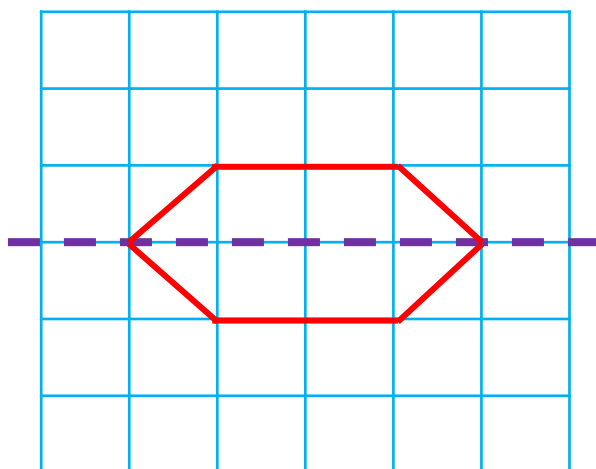
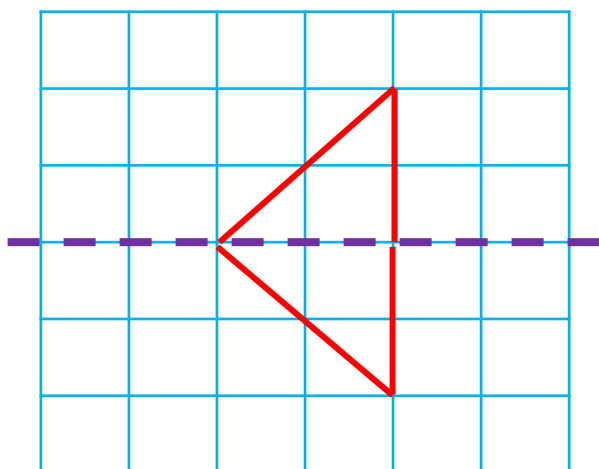


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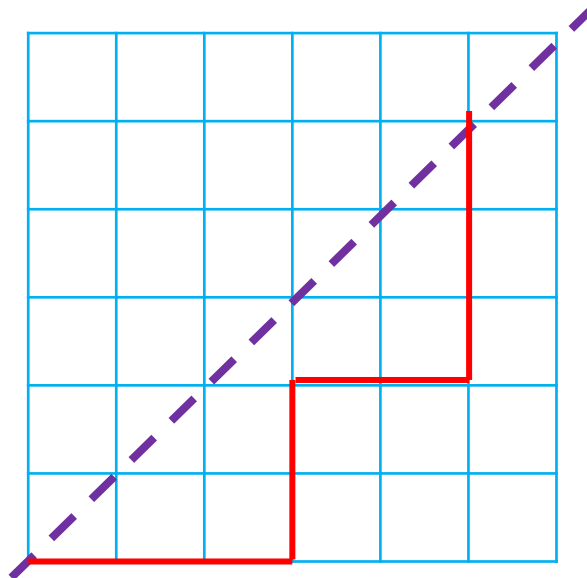
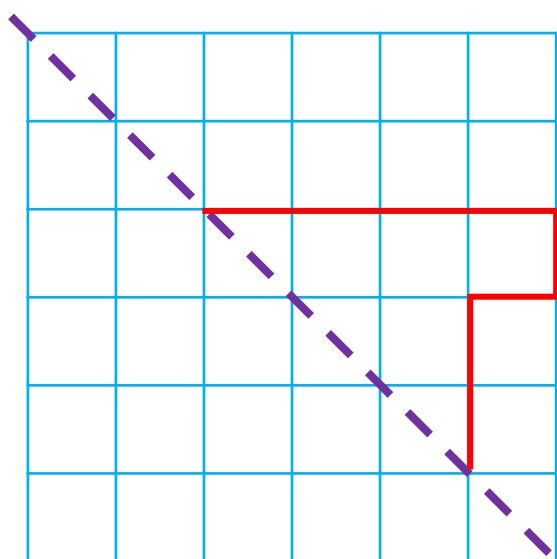
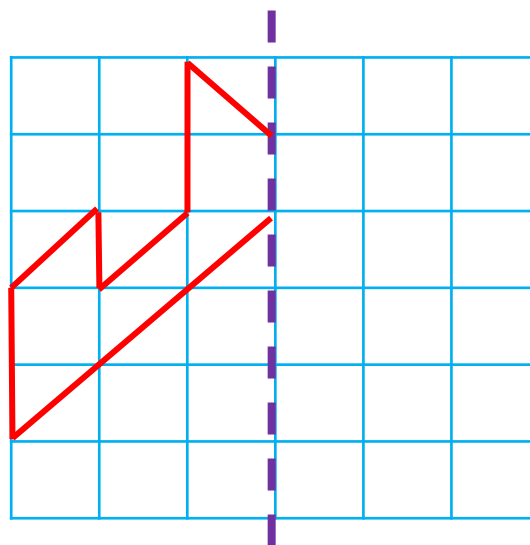
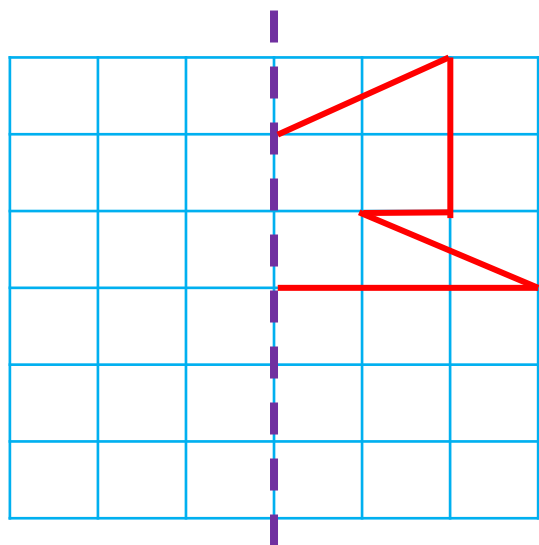
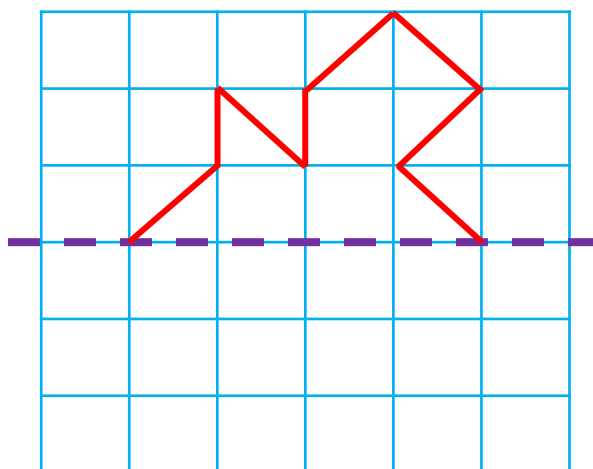
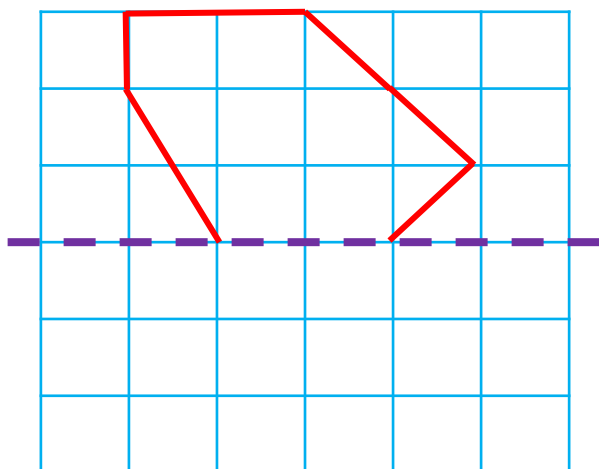


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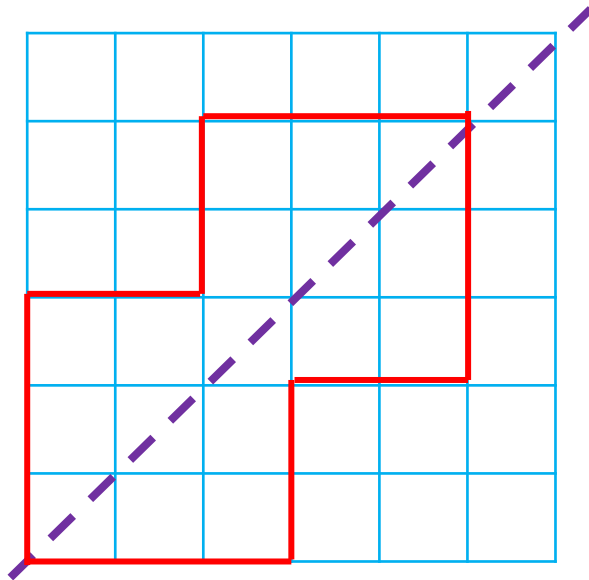
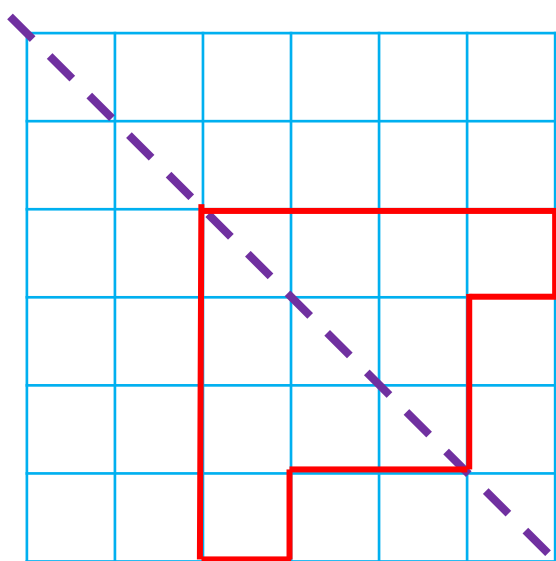
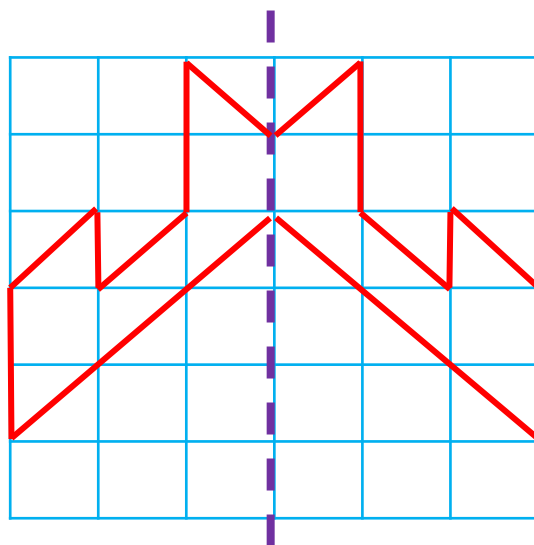
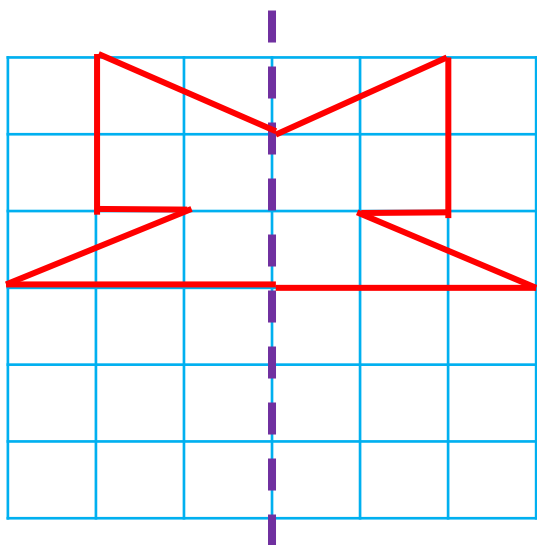
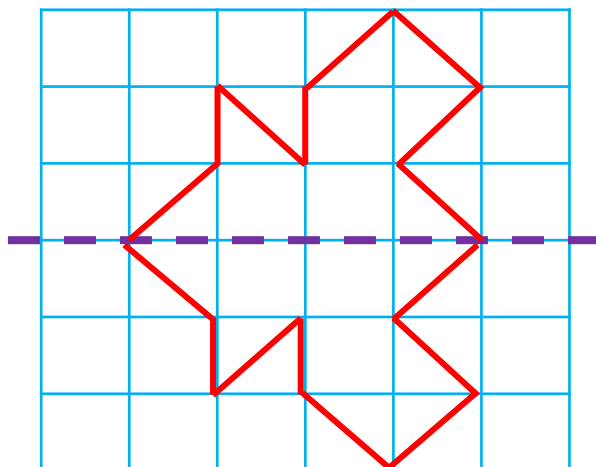
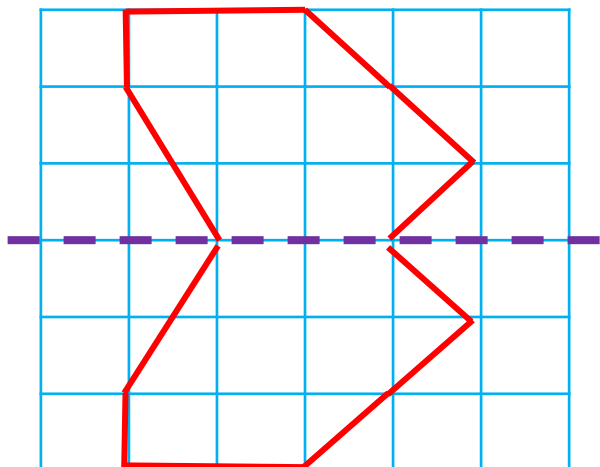


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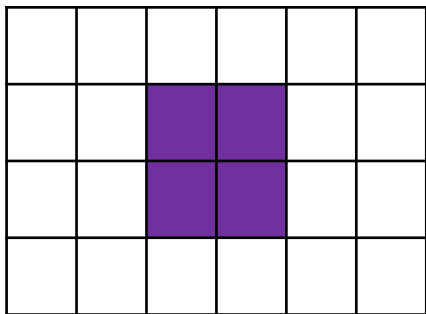


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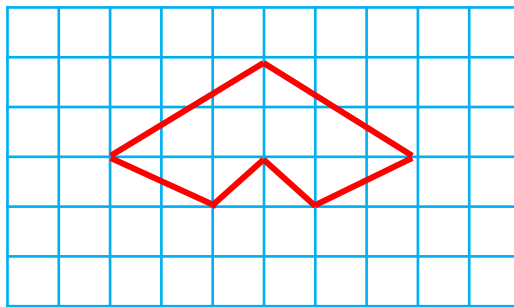


What's the same and what's different?

a)

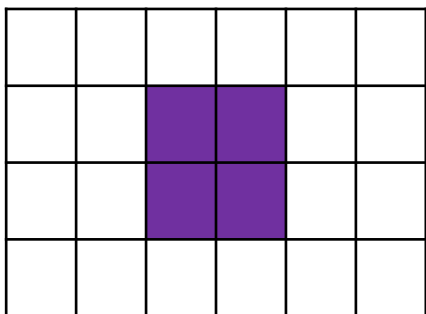


b)

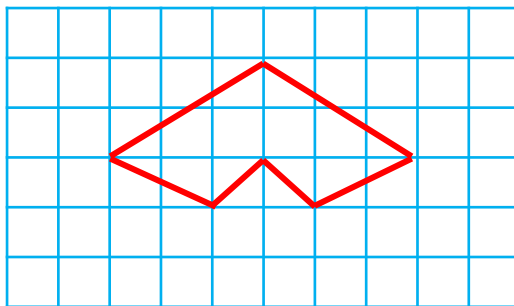


What's the same and what's different?

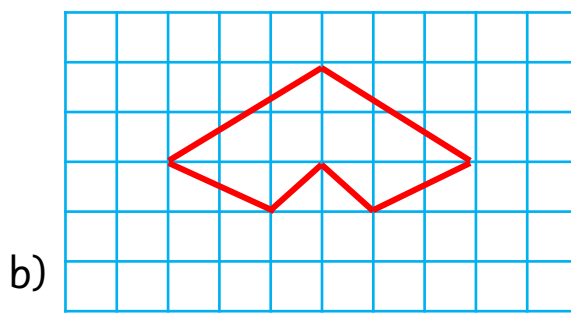
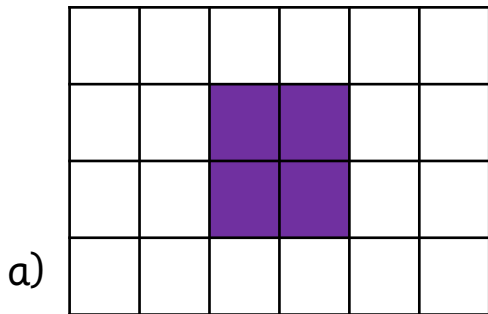
a)



b)



What's the same and what's different?

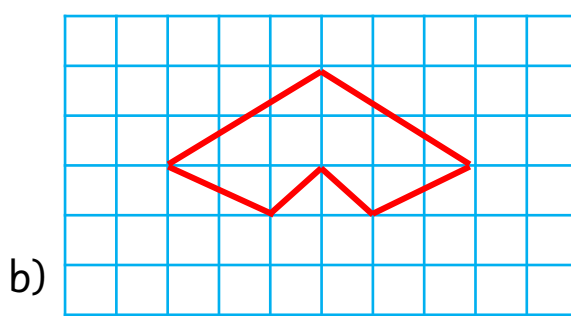
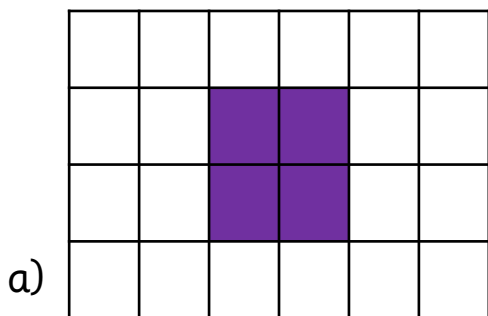


The same: Both have a vertical line of symmetry.

Different: The first has a vertical, horizontal and diagonal line of symmetry.

Different shapes/ colours/ amount of squares

What's the same and what's different?



The same: Both have a vertical line of symmetry.

Different: The first has a vertical, horizontal and diagonal line of symmetry.

Different shapes/ colours/ amount of squares