

LIFE/work balance

CLASSROOM *Secrets*

#LIFEworkbalance

We have started a #LIFEworkbalance campaign and we need your help to complete our LIFE/work balance survey.

We hope to publish the results soon, so please give 15 minutes of your time to help us get a true picture of school life.

Want to be a part of this campaign? Take the [survey](#) on our website and share it with your colleagues!

Year 4 – Summer Block 5 – Properties of Shape – Symmetric Figures

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 4: (4G2b) [Identify lines of symmetry in 2-D shapes presented in different orientations](#)

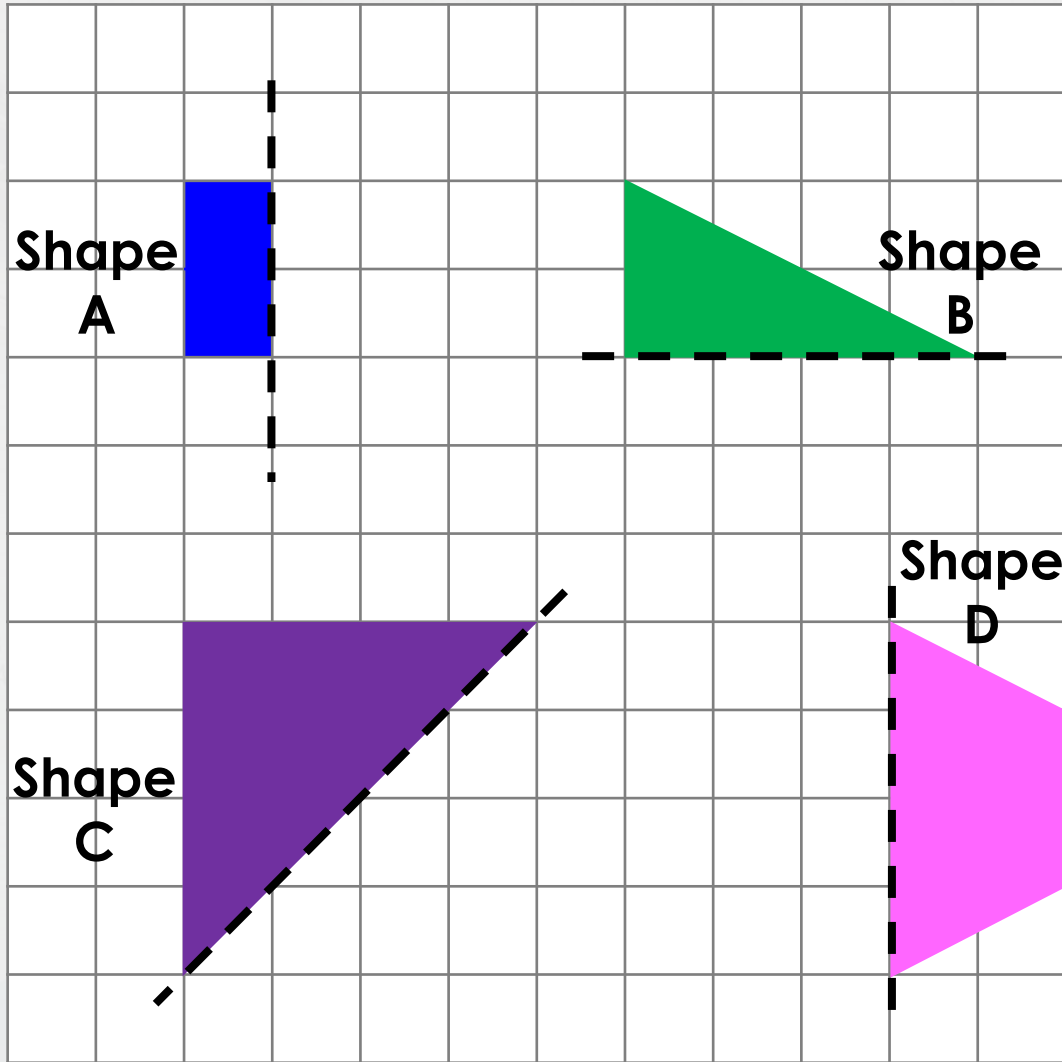
Mathematics Year 4: (4G2c) [Complete a simple symmetric figure with respect to a specific line of symmetry](#)

More [Year 4 Properties of Shapes](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

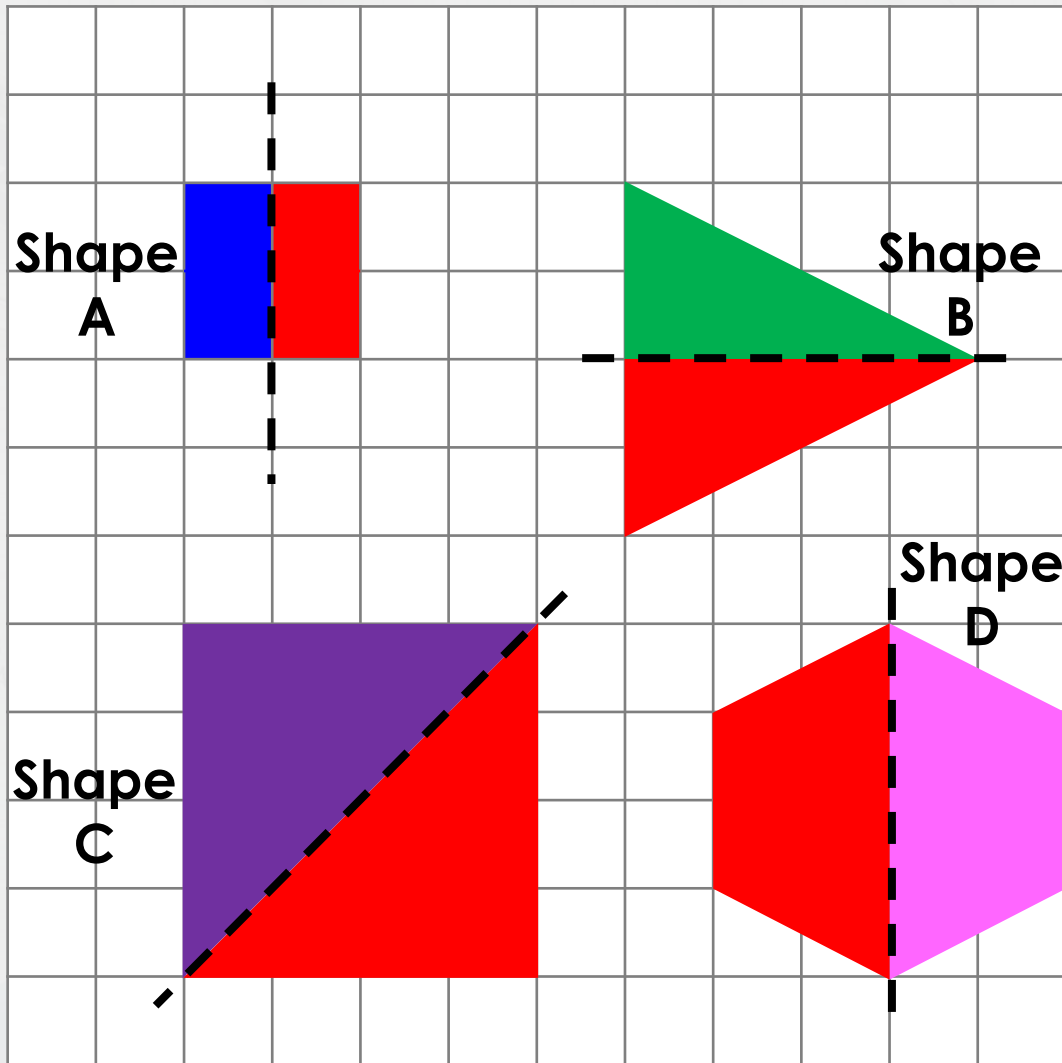
Step 6: Symmetric Figures

Introduction



Reflect each shape in the mirror line and identify the name of the completed shape.

Introduction



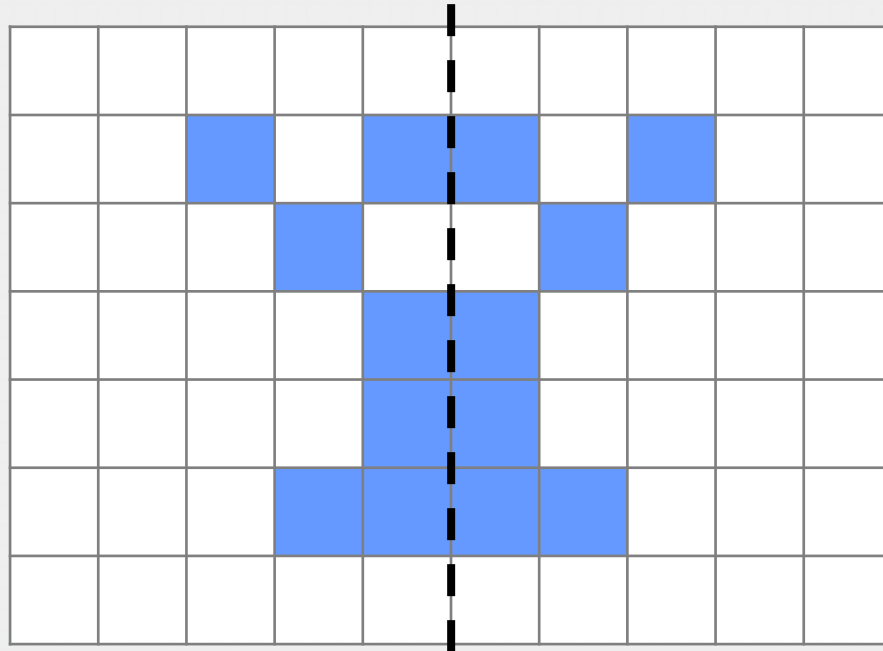
Reflect each shape in the mirror line and identify the name of the completed shape.

Shape A = square
Shape B = triangle
Shape C = square
Shape D = hexagon

Varied Fluency 1

True or false?

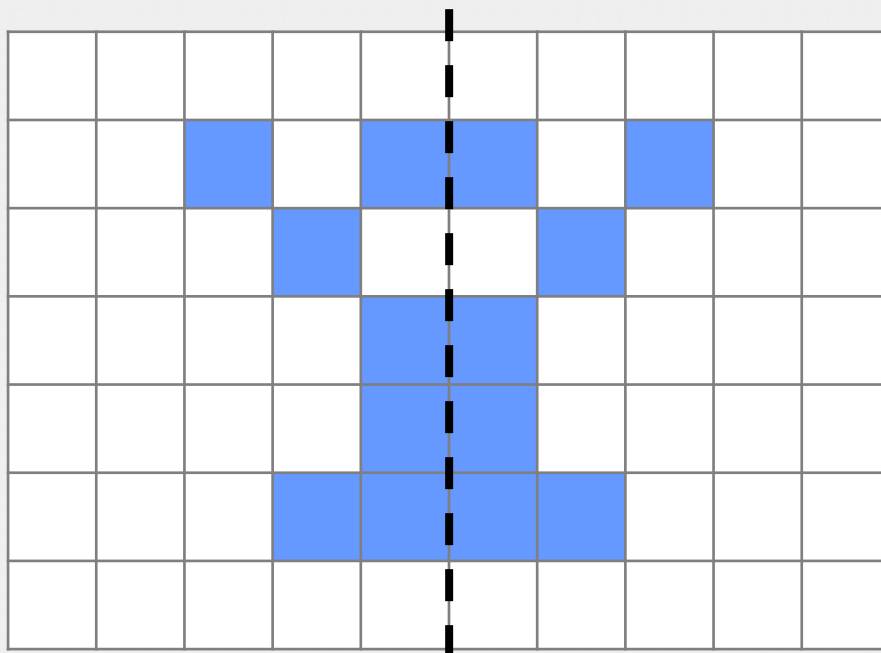
This pattern has been reflected correctly in the mirror line.



Varied Fluency 1

True or false?

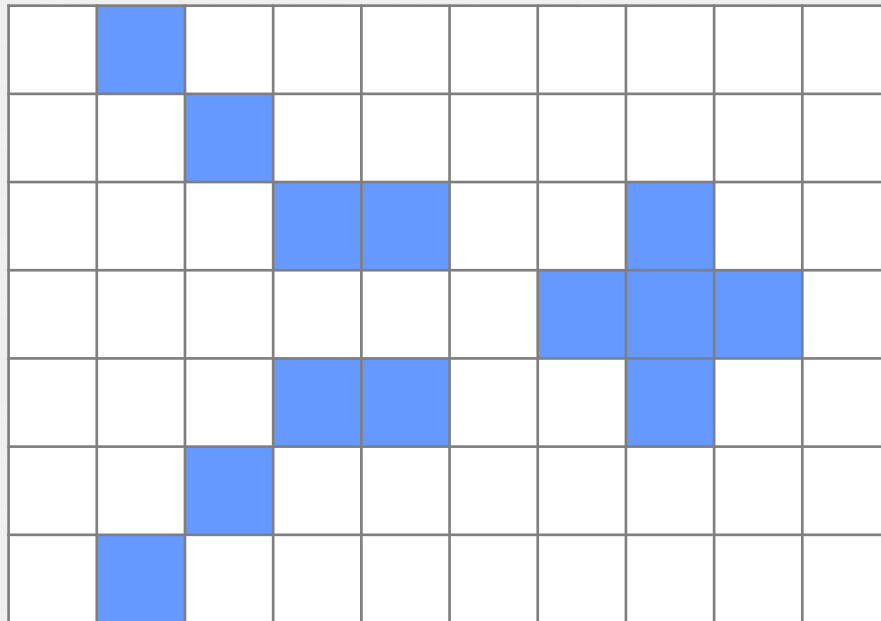
This pattern has been reflected correctly in the mirror line.



True

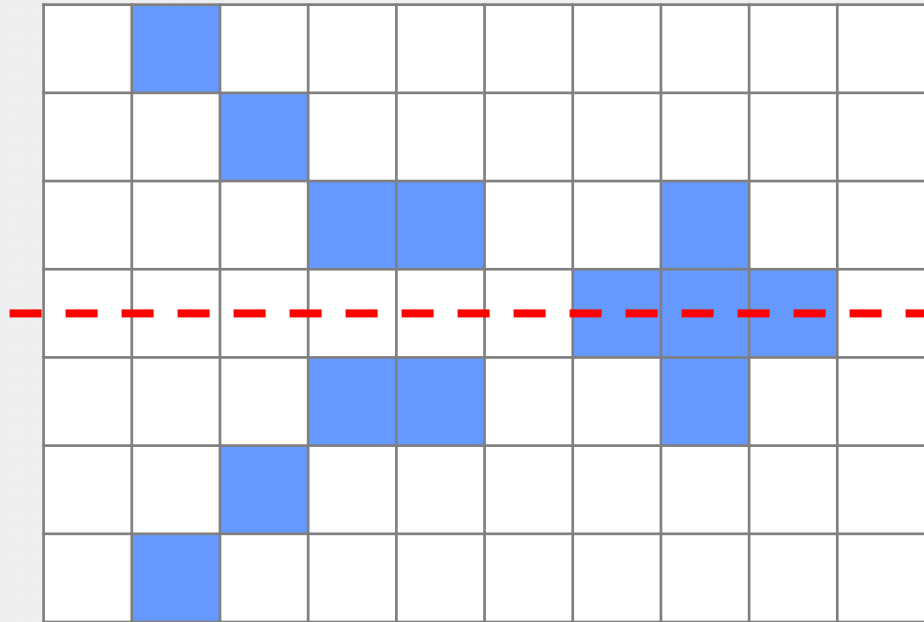
Varied Fluency 2

Draw the line of symmetry.



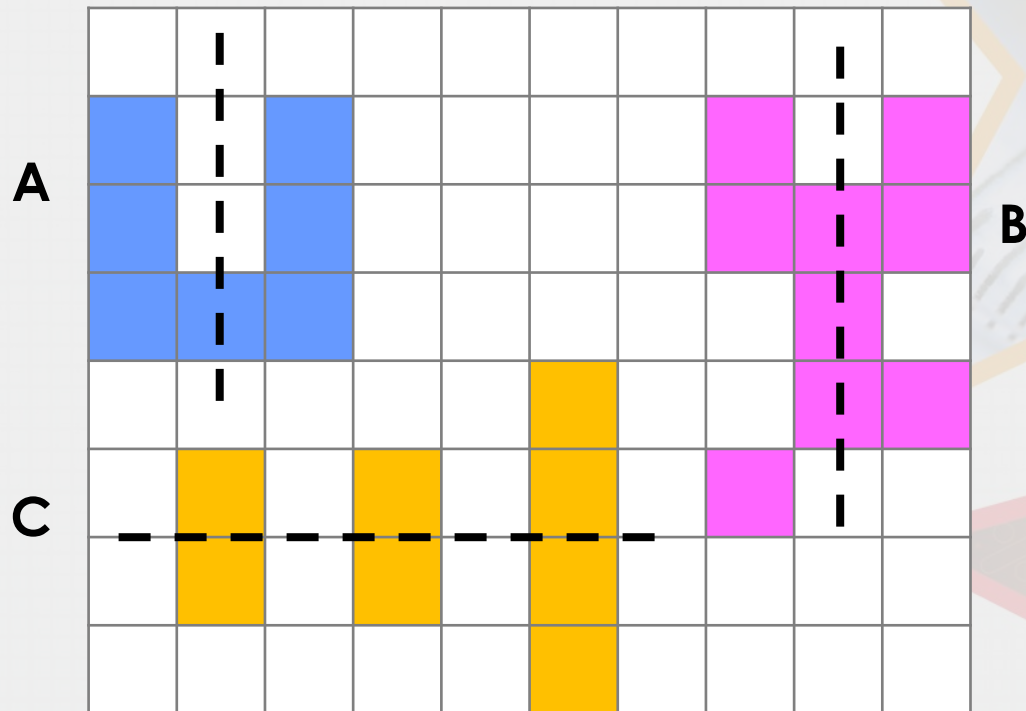
Varied Fluency 2

Draw the line of symmetry.



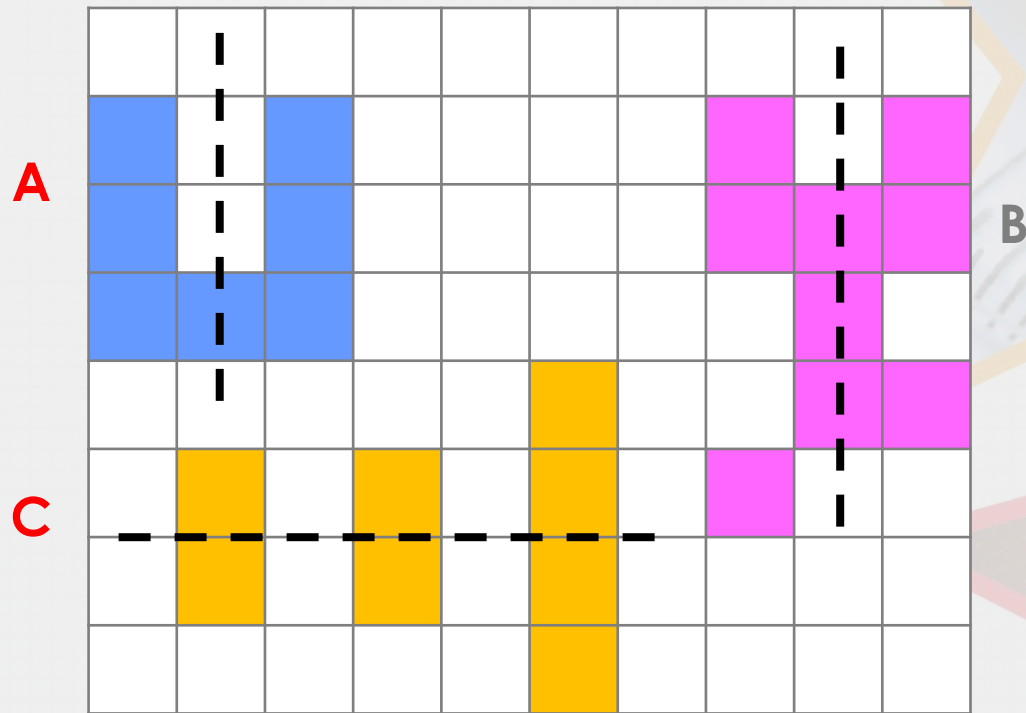
Varied Fluency 3

Identify the patterns with the correct lines of symmetry.



Varied Fluency 3

Identify the patterns with the correct lines of symmetry.



A

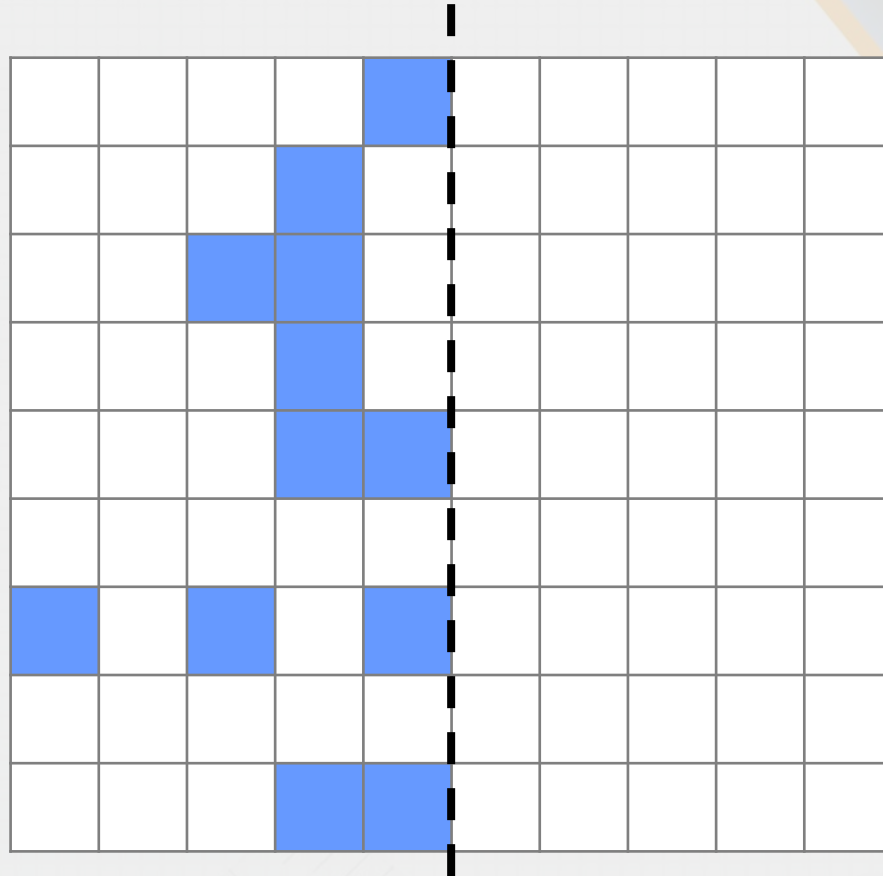
B

C

A and C

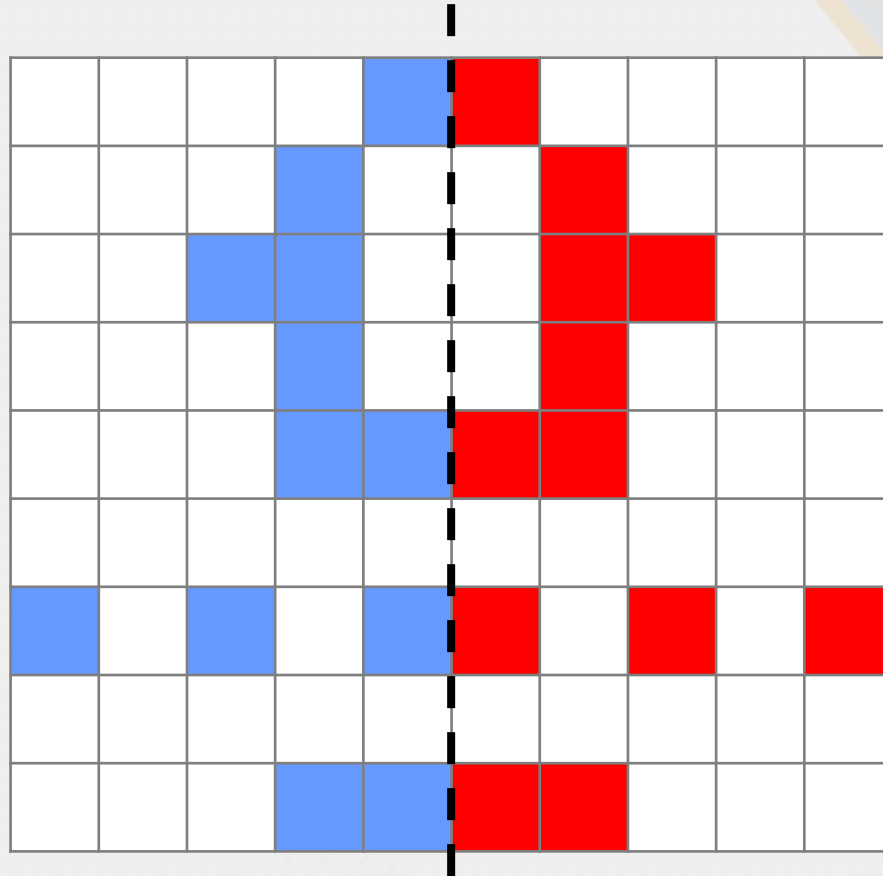
Varied Fluency 4

Reflect the pattern in the mirror line.



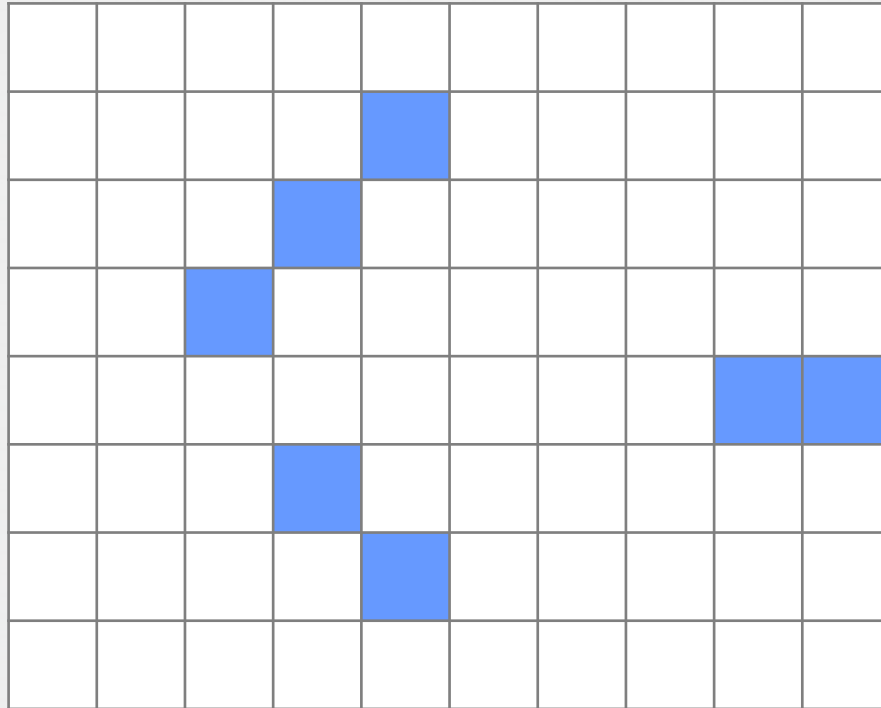
Varied Fluency 4

Reflect the pattern in the mirror line.



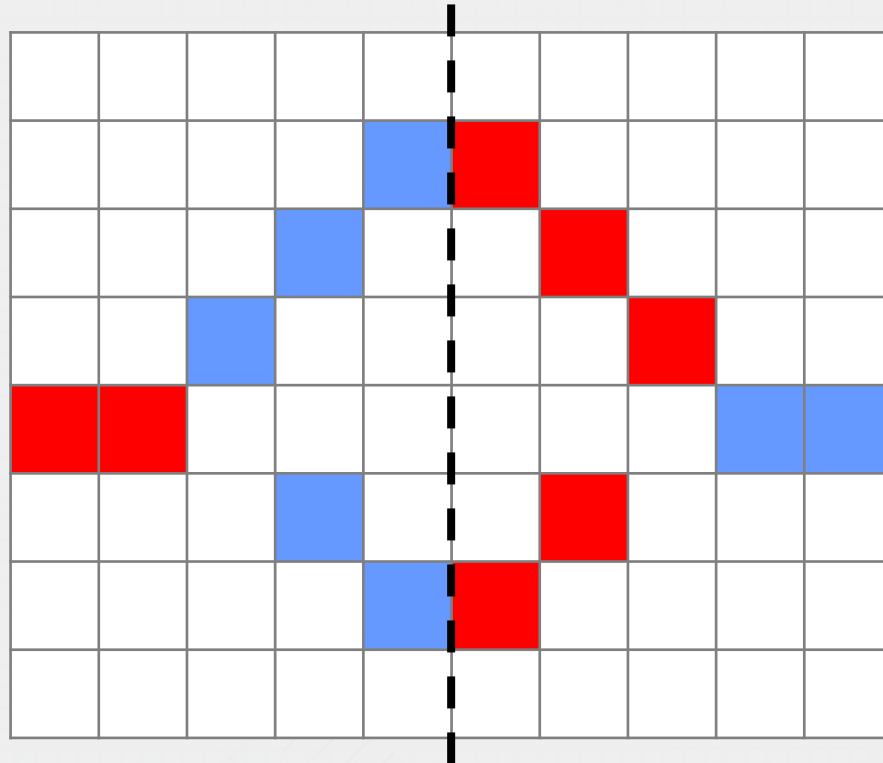
Problem Solving 1

What is the smallest number of squares that need to be filled so that this pattern has a vertical line of symmetry?



Problem Solving 1

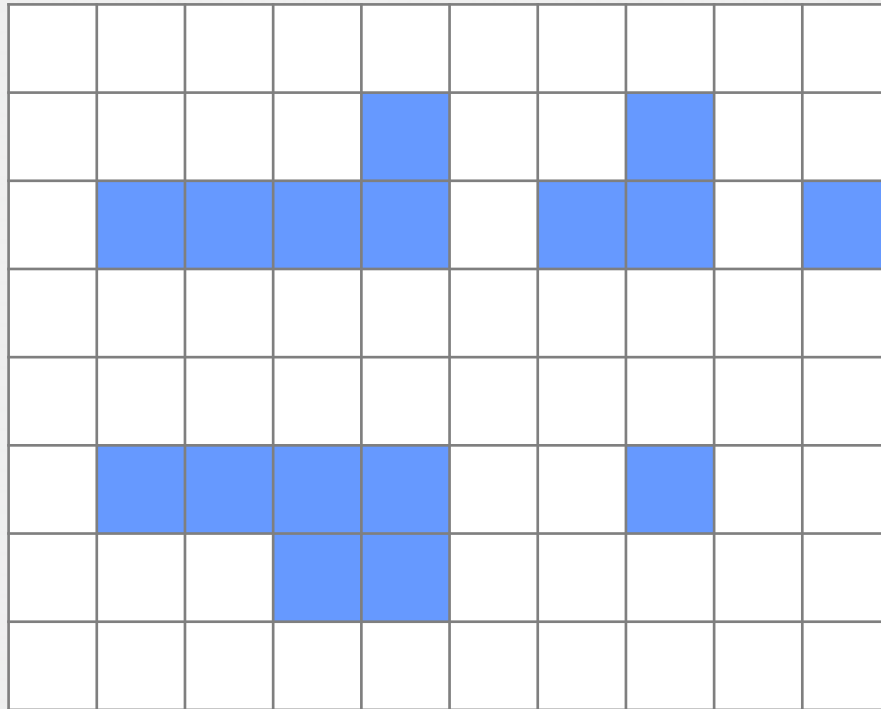
What is the smallest number of squares that need to be filled so that this pattern has a vertical line of symmetry?



7 more squares, 14 squares altogether.

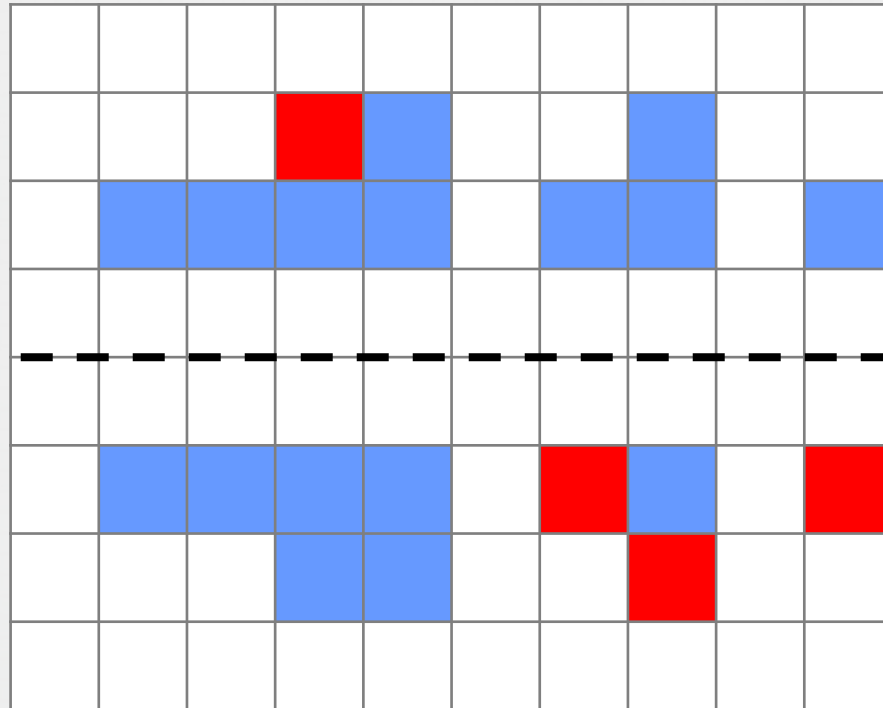
Problem Solving 2

Add 4 squares to the pattern below so that it has a horizontal line of symmetry.



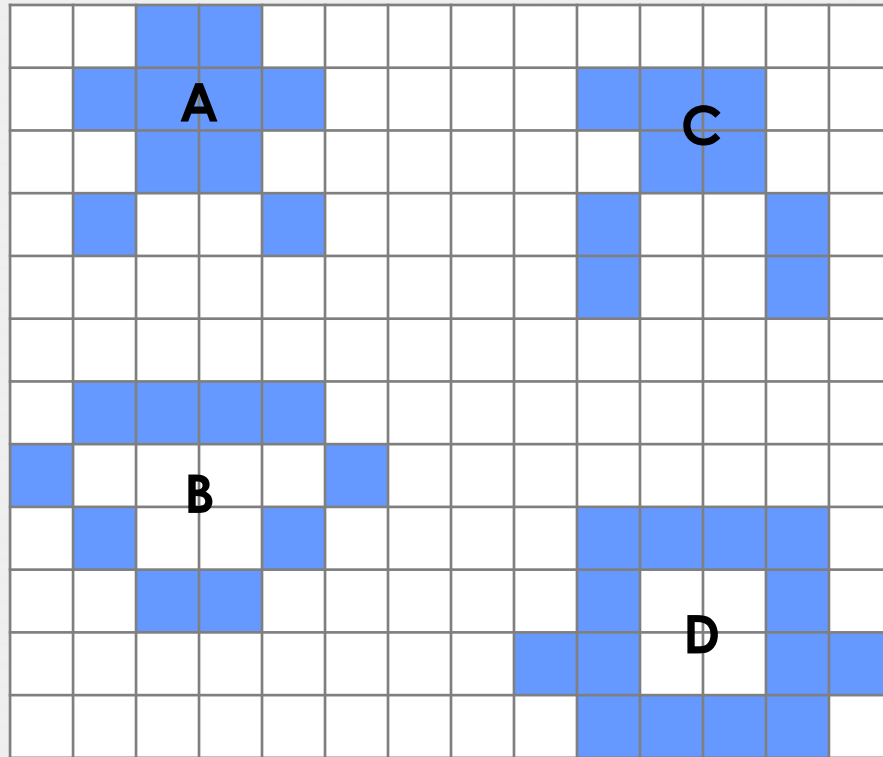
Problem Solving 2

Add 4 squares to the pattern below so that it has a horizontal line of symmetry.



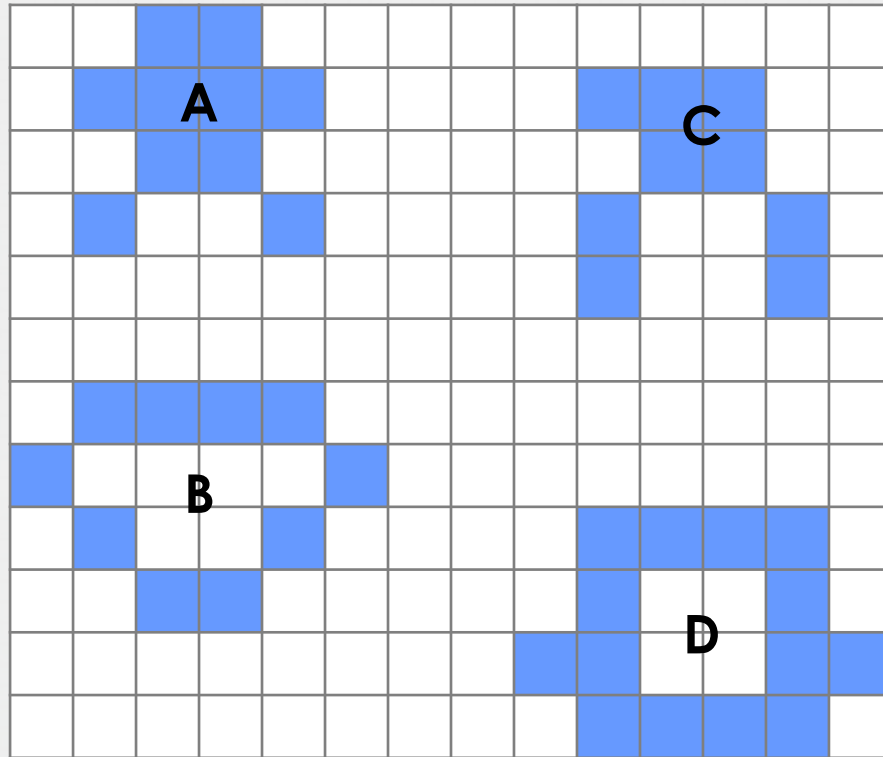
Reasoning 1

Spot the odd one out. Explain your choice.



Reasoning 1

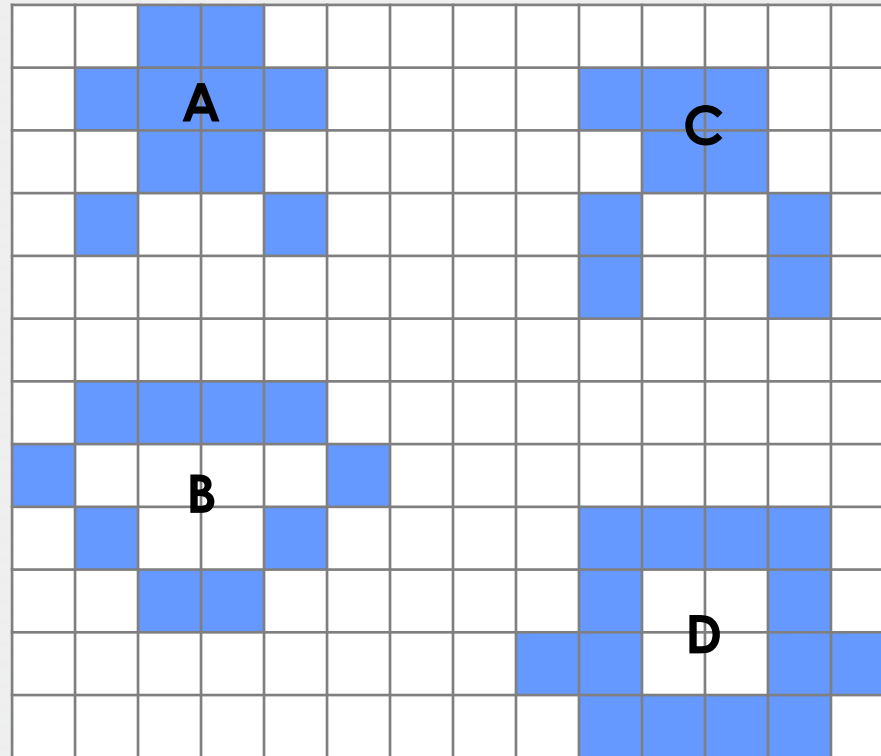
Spot the odd one out. Explain your choice.



C is the odd one out because...

Reasoning 1

Spot the odd one out. Explain your choice.



C is the odd one out because it's the only pattern that is not symmetrical. All the other patterns have a line of symmetry.