

Homework/Extension

Step 2: Reflection

National Curriculum Objectives:

Mathematics Year 5: (5P2) [Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Decide whether a statement is true or false when reflecting shapes using vertical and horizontal mirror lines. Regular polygons with up to 4 sides.

Expected Decide whether a statement is true or false when reflecting shapes and coordinates using vertical and horizontal mirror lines. Regular polygons with up to 6 sides.

Greater Depth Decide whether a statement is true or false when reflecting shapes using vertical, horizontal and diagonal mirror lines, including some without grids. Irregular shapes with up to 8 sides.

Questions 2, 5 and 8 (Varied Fluency)

Developing Find the new coordinates when reflecting shapes across a mirror line using vertical and horizontal mirror lines. Regular polygons with up to 4 sides.

Expected Find the new coordinates when reflecting shapes across a mirror line using vertical and horizontal mirror lines. Regular polygons with up to 6 sides.

Greater Depth Find the new coordinates when reflecting shapes across a mirror line using vertical, horizontal and diagonal mirror lines, including some without grids. Irregular shapes with up to 8 sides.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Decide which statement is correct and explain why when reflecting a shape using vertical and horizontal mirror lines.

Expected Decide which statement is correct and explain why when reflecting a monochrome pattern using vertical and horizontal mirror lines.

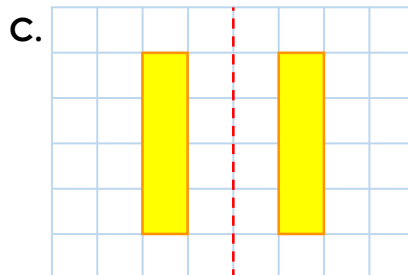
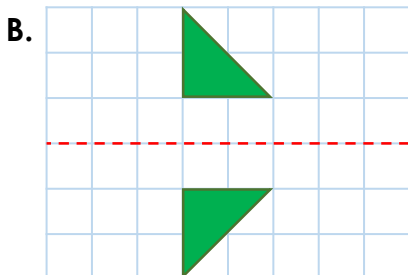
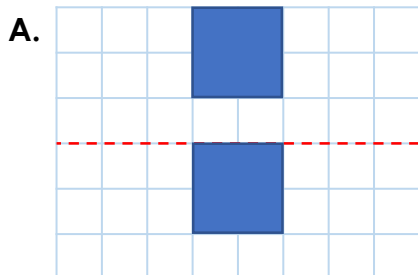
Greater Depth Decide which statement is correct and explain why when reflecting a two-tone pattern using vertical, horizontal and diagonal mirror lines, including some without grids.

More [Year 5 Position and Direction](#) resources.

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

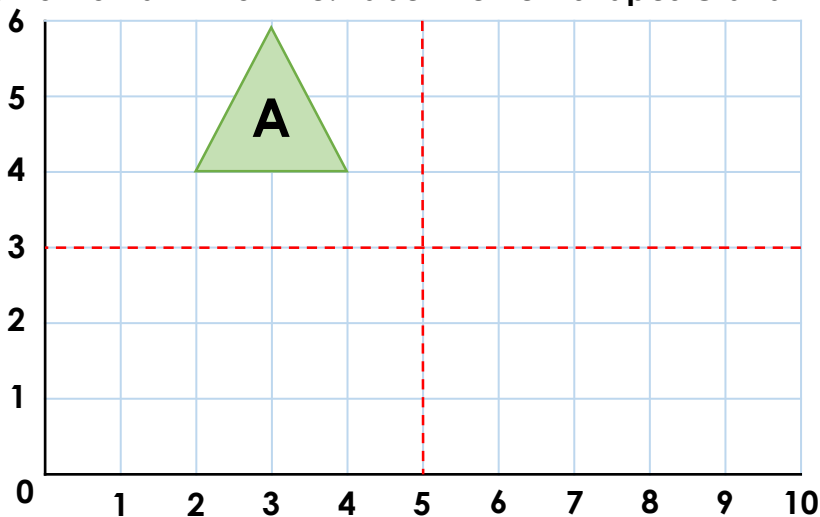
Reflection

1. True or false? The following images have been reflected correctly.



VF
HW/Ext

2. Reflect the shape across the vertical mirror line. Label this shape 'B'. Then reflect A and B across the horizontal mirror line. Label the new shapes C and D.

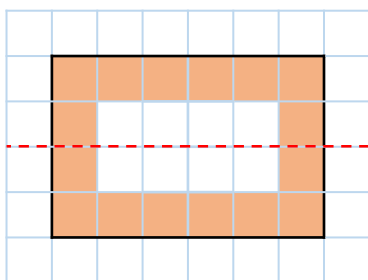


VF
HW/Ext

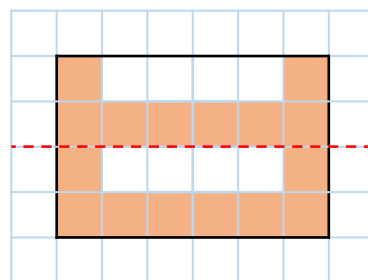
3. Hafsa and Chuan are reflecting shapes across a mirror line.



Hafsa



Chuan



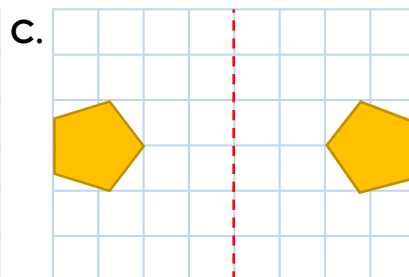
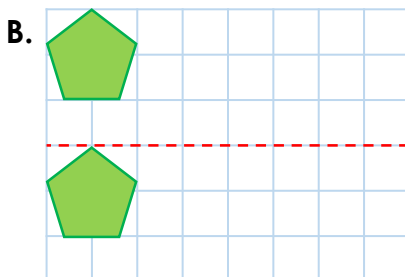
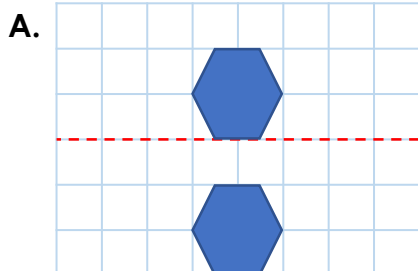
Who has reflected the shape accurately?
Explain how you know.



RPS
HW/Ext

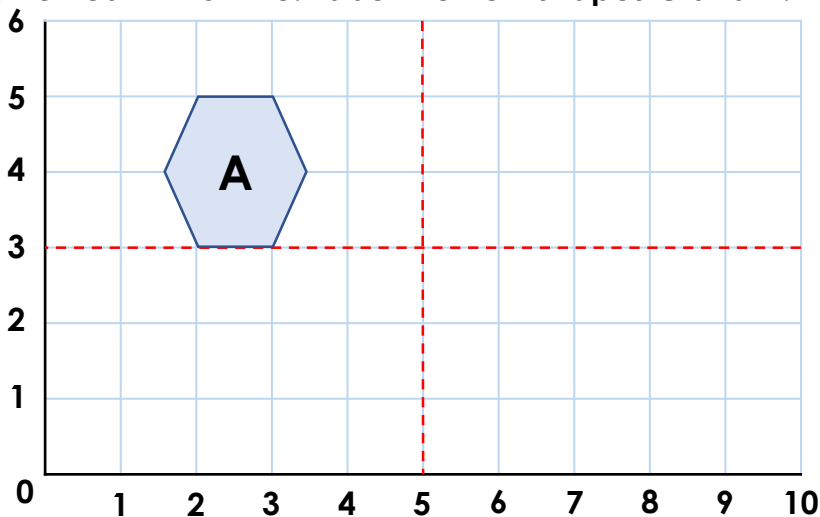
Reflection

4. True or false? The following images have been reflected correctly.



VF
HW/Ext

5. Reflect the shape across the horizontal mirror line. Label this shape 'B'. Then reflect A and B across the vertical mirror line. Label the new shapes C and D.

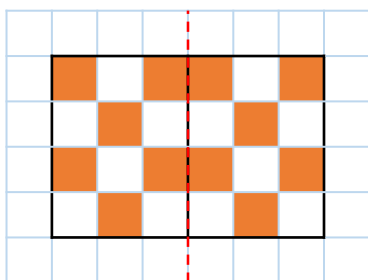


VF
HW/Ext

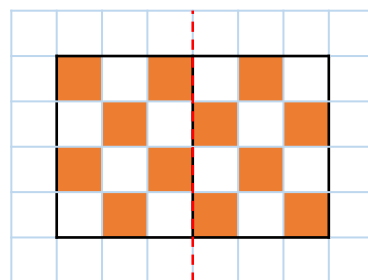
6. Steph and Sean are reflecting patterns across a mirror line.



Steph



Sean



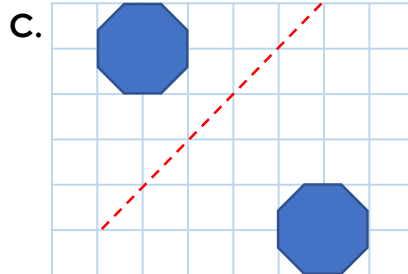
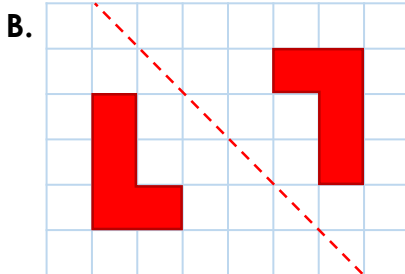
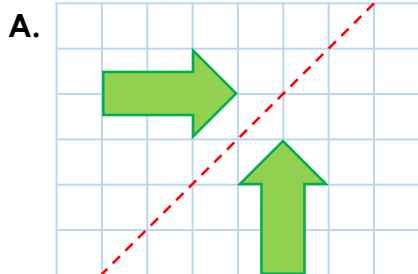
Who has reflected the pattern accurately?
Explain how you know.



RPS
HW/Ext

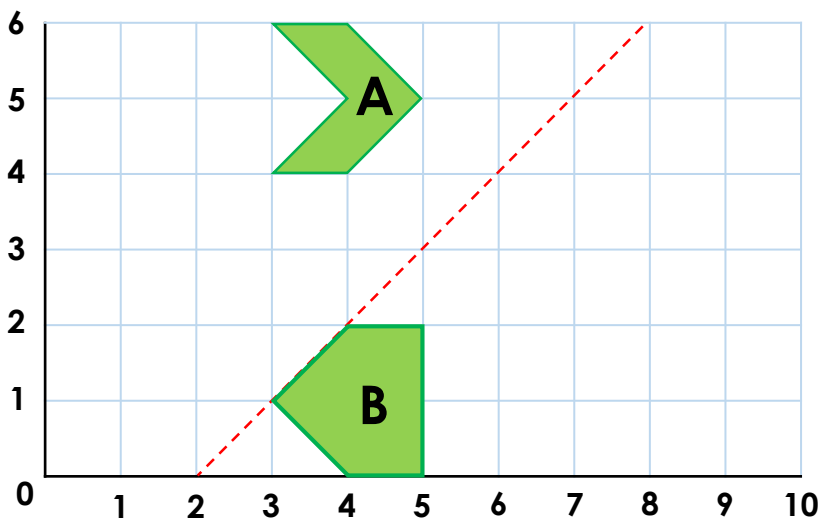
Reflection

7. True or false? The following images have been reflected correctly.



VF
HW/Ext

8. Reflect the shapes across the diagonal mirror line. Label the new shapes C and D.

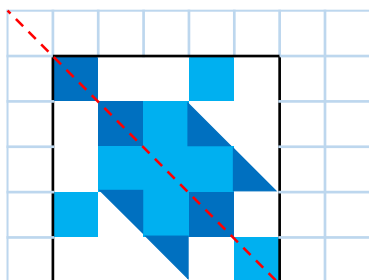


VF
HW/Ext

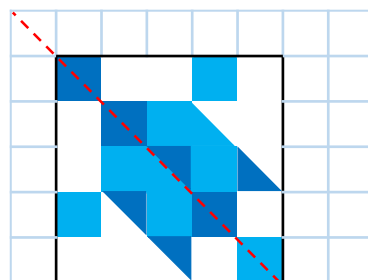
9. Alice and Johnny are reflecting patterns across a mirror line.



Alice



Johnny



Who has reflected the pattern accurately?
Explain how you know.



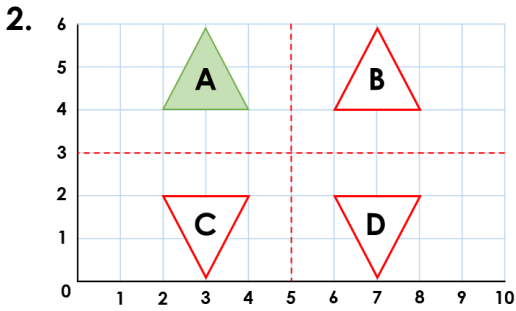
RPS
HW/Ext

Homework/Extension

Reflection

Developing

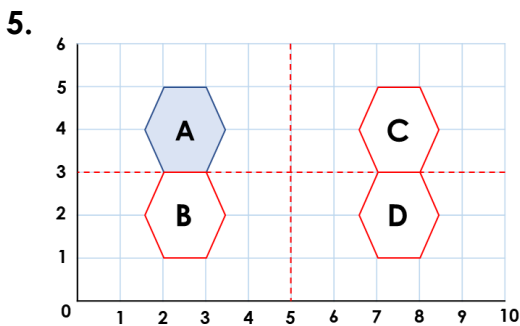
1. **A is false, B is true, C is true**



3. **Hafsa is correct, she has reflected the pattern across the mirror line. Chuan has copied the image but not reflected it.**

Expected

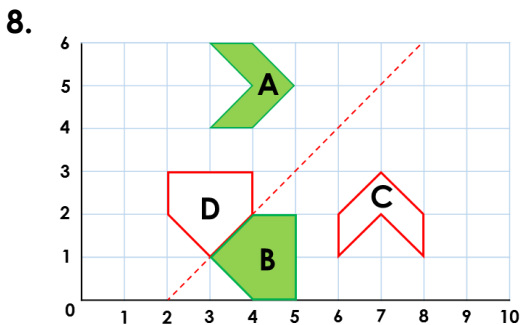
4. **A is false, B is false, C is true**



6. **Steph is correct, she has reflected the pattern across the mirror line. Sean has copied the image but not reflected it.**

Greater Depth

7. **A is true, B is false, C is false**



9. **Alice is correct, she has reflected the pattern across the diagonal mirror line. Sean has only reflected part of the pattern accurately.**