

# Homework/Extension

## Step 6: Symmetric Figures

### 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.](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Say whether the statement is true or false when relating to shapes reflected in 1 mirror line. Shapes including squares, rectangles and right angled triangles.

**Expected** Say whether the statement is true or false when relating to shapes reflected in 1 mirror line. Shapes including regular polygons.

**Greater Depth** Say whether the statement is true or false when relating to shapes reflected in a diagonal mirror line. Shapes including irregular polygons.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** State which option would complete the symmetrical pattern. Patterns include 1 line of symmetry, no more than 8 squares arranged in a solid formation on the mirror line.

**Expected** State which option would complete the symmetrical pattern. Patterns include 1 line of symmetry, no more than 12 squares arranged in a random formation close to the mirror line.

**Greater Depth** State which option would complete the symmetrical pattern. Patterns include 1 line of symmetry, no more than 12 squares arranged in a random formation using the whole grid.

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

**Developing** Explain if the statement is correct. Patterns include 1 line of symmetry, no more than 8 squares arranged in a solid formation on the mirror line.

**Expected** Explain if the statement is correct. Patterns include 1 line of symmetry, no more than 12 squares arranged in a random formation close to the mirror line.

**Greater Depth** Explain if the statement is correct. Patterns include up to 2 line of symmetry, no more than 12 squares arranged in a random formation using the whole grid.

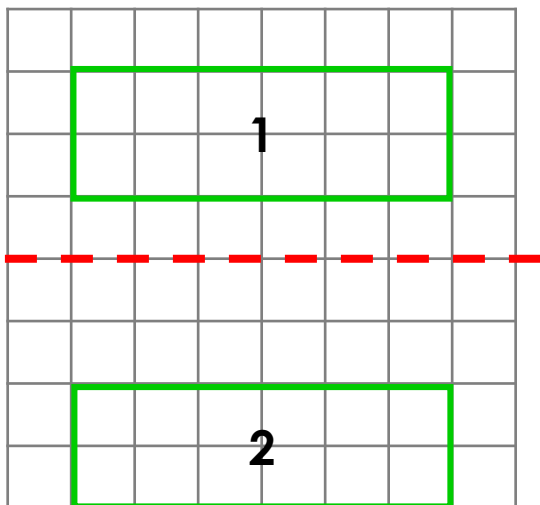
More [Year 4 Properties of Shape](#) resources.

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

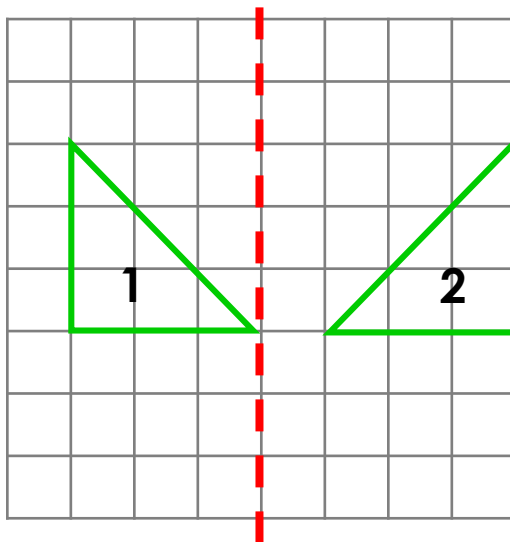
# Symmetric Figures

1. True or false? Shape 2 has been reflected in the mirror line correctly.

A.

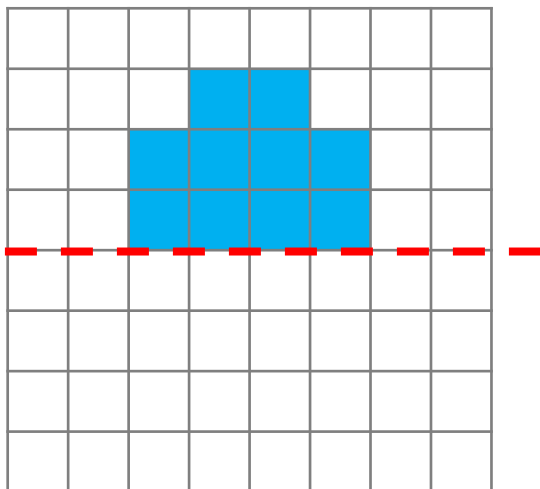


B.



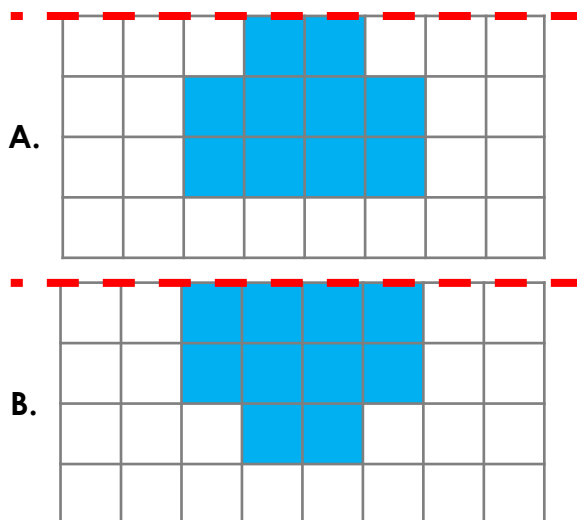
VF  
HW/Ext

2. Which of the following options would complete the symmetrical pattern?



A.

B.

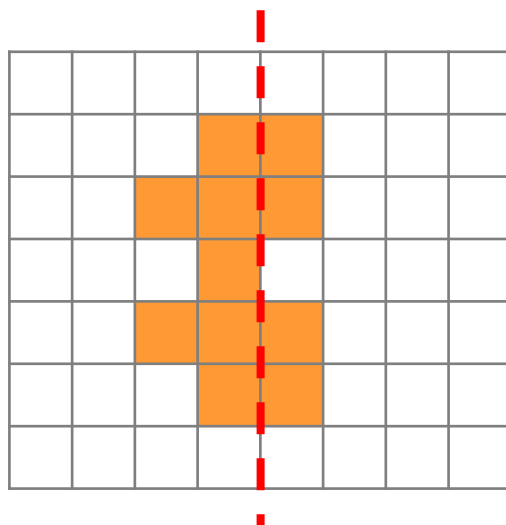


VF  
HW/Ext

3. Seb is creating a symmetrical pattern.



If I colour 3 more squares my pattern will be symmetrical.



Is he correct? Explain your answer.

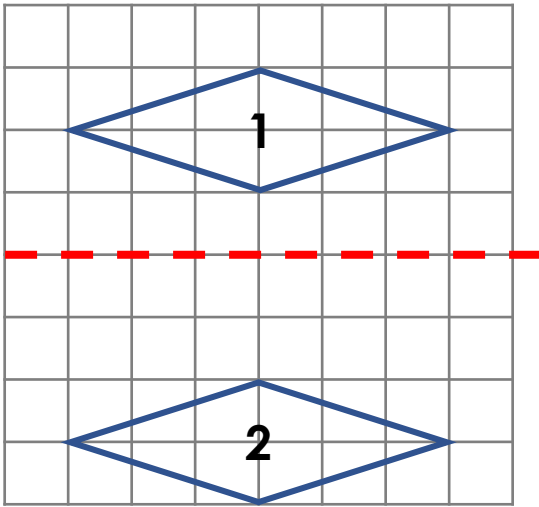


RPS  
HW/Ext

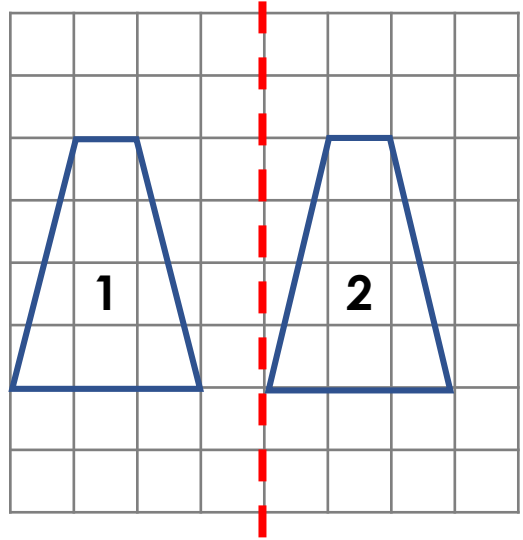
# Symmetric Figures

4. True or false? Shape 2 has been reflected in the mirror line correctly.

A.

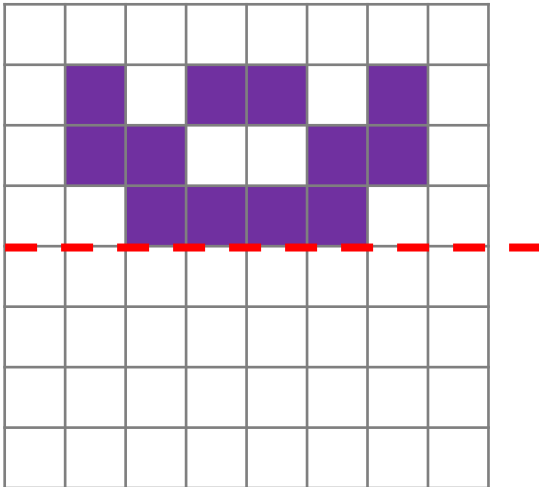


B.



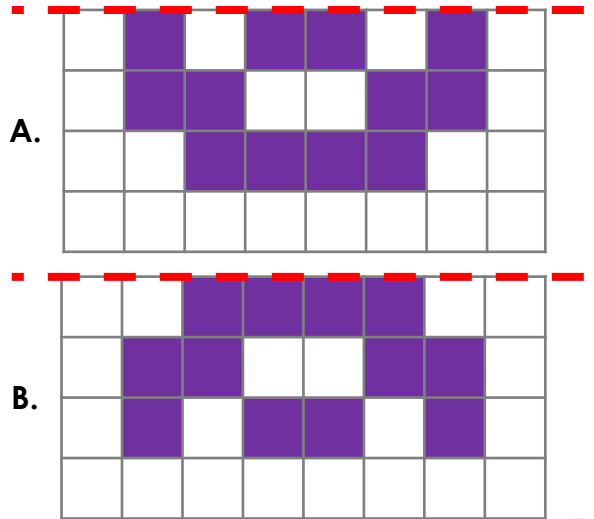
VF  
HW/Ext

5. Which of the following options would complete the symmetrical pattern?



A.

B.

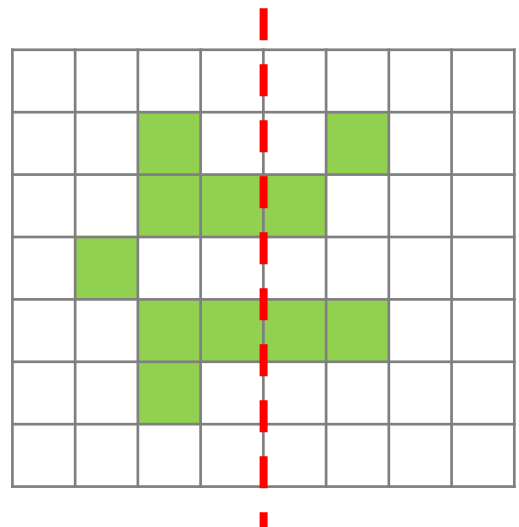


VF  
HW/Ext

6. Ellie is creating a symmetrical pattern.



If I colour 5 more squares my pattern will be symmetrical.



Is she correct? Explain your answer.

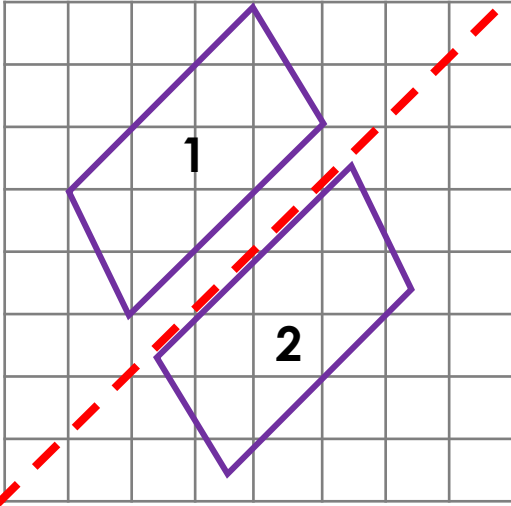


RPS  
HW/Ext

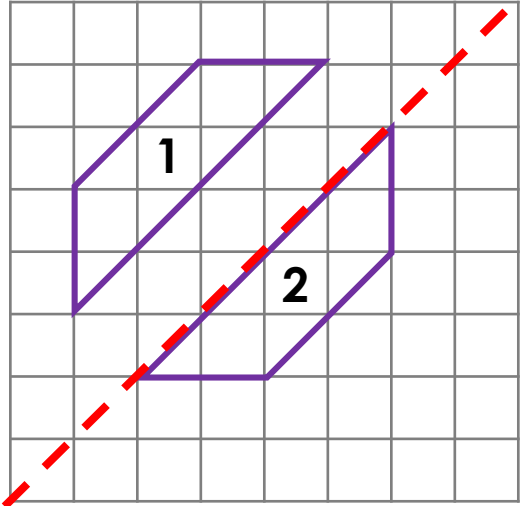
# Symmetric Figures

7. True or false? Shape 2 has been reflected in the mirror line correctly.

A.

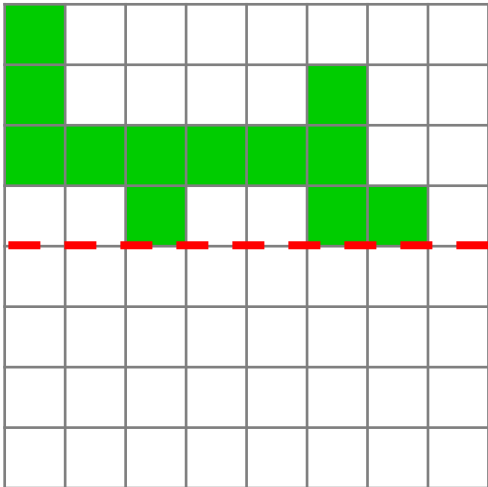


B.

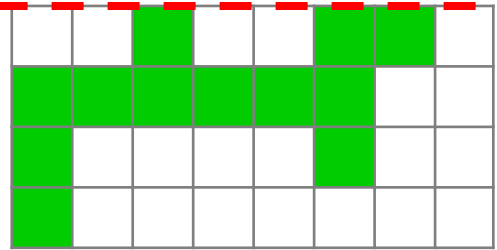


VF  
HW/Ext

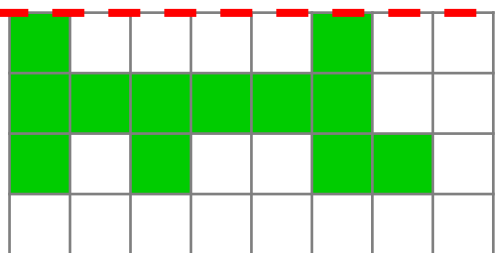
8. Which of the following options would complete the symmetrical pattern?



A.



B.

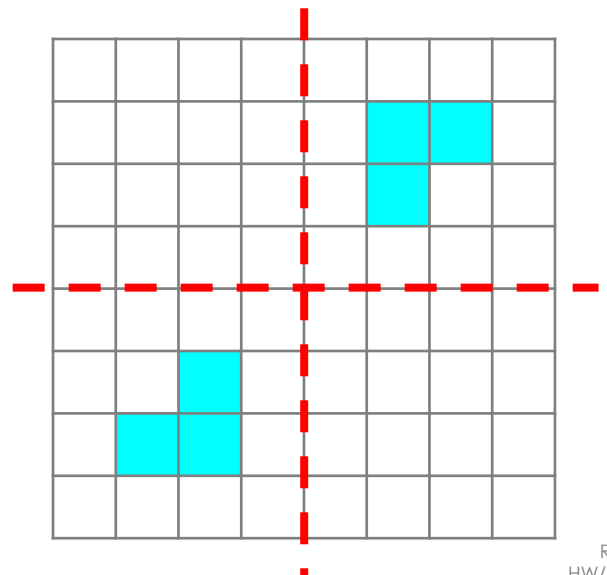


VF  
HW/Ext

9. Annie is creating a symmetrical pattern.



If I colour 10 more squares my pattern will be symmetrical.



Is she correct? Explain your answer.



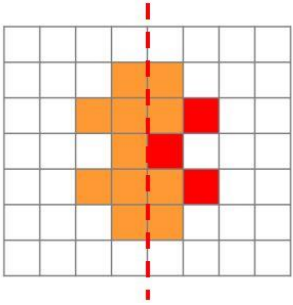
RPS  
HW/Ext

# Homework/Extension

## Symmetric Figures

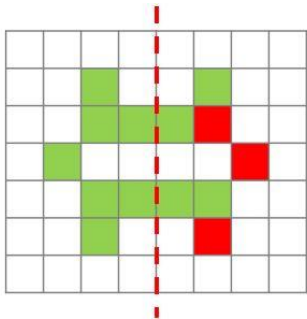
### Developing

1. **False.** Shape 2 in A should only be 1 square away from the mirror line and shape 2 in B should be on the mirror line.
2. **B**
3. **Seb is correct** as he would need to colour 3 more squares to make the pattern symmetrical.



### Expected

4. **False.** Shape 2 in both A and B should only be 1 square away from the mirror line.
5. **B**
6. **Ellie is incorrect** as she would only need to colour 3 more squares to make the pattern symmetrical.



### Greater Depth

7. **False.** Shape 2 in A should only be half a square away from the mirror line and shape 2 in B should be 1 square away from the mirror line.
9. **Annie is incorrect** as she would only need to colour 6 more squares to make the pattern symmetrical.

