

Homework/Extension

Step 7: Make Patterns with 2D Shapes

National Curriculum Objectives:

Mathematics Year 2: (2P1) [Order and arrange combinations of mathematical objects in patterns and sequences](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Continue repeating patterns. Patterns include 2 different 2D shapes, all with the same orientation.

Expected Continue repeating patterns. Patterns include up to 3 different 2D shapes, some include the same shape in different orientations.

Greater Depth Continue repeating patterns. Patterns include up to 3 different 2D shapes, including the same shape in different orientations. Some patterns use shapes within shapes.

Questions 2, 5 and 8 (Varied Fluency)

Developing Match patterns to their descriptions to find the odd one out. Patterns include 2 different 2D shapes, all with the same orientation.

Expected Match patterns to their descriptions to find the odd one out. Patterns include up to 3 different 2D shapes, some include the same shape in different orientations.

Greater Depth Match patterns to their descriptions to find the odd one out. Patterns include up to 3 different 2D shapes, including the same shape in different orientations. Some patterns use shapes within shapes.

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

Developing Follow instructions to create a repeating pattern. The pattern includes 2 different 2D shapes.

Expected Follow instructions to create a repeating pattern. The pattern includes 3 different 2D shapes.

Greater Depth Follow instructions to create a repeating pattern. The pattern includes the same shape in different orientations.

More [Year 2 Properties of Shape](#) resources.

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

Make Patterns with 2D Shapes

1. Complete the patterns.

A.

--	--	--	--	--	--	--	--	--

B.

--	--	--	--	--	--	--	--	--

C.

--	--	--	--	--	--	--	--	--



VF
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2. Match the patterns to the descriptions to find the odd one out.

A.

--	--	--	--	--	--

B.

All the shapes are pentagons.

C.

--	--	--	--	--

D.

All the shapes have fewer than 4 sides.

E.

--	--	--	--	--	--



VF
HW/Ext

3. Create a repeating pattern using the instructions below.

The completed pattern must be 10 shapes long.

It must include circles and squares.



RPS
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Make Patterns with 2D Shapes

4. Complete the patterns.

A.

								
---	---	---	---	---	--	--	--	--

B.

								
---	---	---	---	---	--	--	--	--

C.

								
---	--	---	---	---	--	--	--	--



VF
HW/Ext

5. Match the patterns to the descriptions to find the odd one out.

A.

					
--	---	---	---	---	---

B.

triangle, square, pentagon, triangle, square, pentagon
--

C.

					
--	---	---	---	---	---

D.

triangle, square, pentagon, triangle, square, pentagon
--

E.

triangle, pentagon, pentagon, triangle, pentagon, pentagon
--



VF
HW/Ext

6. Create a repeating pattern using the instructions below.

The completed pattern must have 12 shapes in total.

There must be 3 different shapes in the pattern.

There must be 6 rectangles in the completed pattern.



RPS
HW/Ext

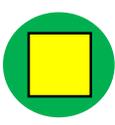
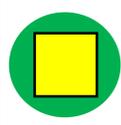
Make Patterns with 2D Shapes

7. Complete the patterns.

A.

								
---	--	---	---	---	--	--	--	--

B.

								
--	---	---	---	---	---	--	--	--

C.

								
---	---	---	---	--	--	--	--	--



VF
HW/Ext

8. Match the patterns to the descriptions to find the odd one out.

A.

					
--	---	---	---	---	---

B.

					
---	---	---	---	---	---

C.

				
--	---	---	---	---

D.

All the shapes in this pattern are hexagons.

E.

There are 2 different pentagons in this pattern.



VF
HW/Ext

9. Create a repeating pattern using the instructions below.

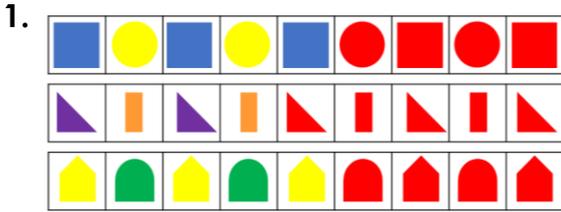
- The completed pattern must have 12 shapes in total.
- There are 4 repeats within the pattern.
- It must only have one kind of shape in different orientations.



RPS
HW/Ext

Homework/Extension Make Patterns with 2D Shapes

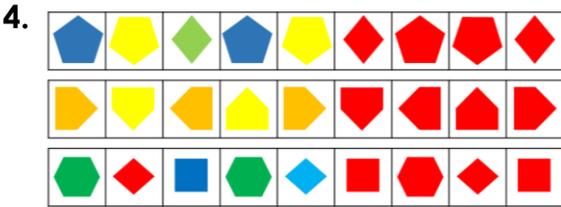
Developing



2. A and D match; B and C match; E is the odd one out.
 3. Various answers, for example:



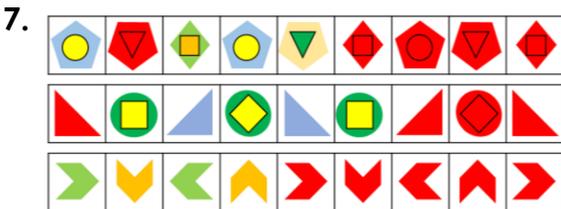
Expected



5. A and B match; C and E match; D is the odd one out.
 6. Various answers, for example:



Greater Depth



8. A and E match; B and D match; C is the odd one out.
 9. Various answers, for example:

