Homework/Extension
Step 5: Horizontal and Vertical

National Curriculum Objectives:

Mathematics Year 3: (3G2) Identify horizontal and vertical lines

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match four quadrilaterals to the correct statements using knowledge of horizontal and vertical lines.
Expected Match four shapes, symbols and capital letters to the correct statements using knowledge of horizontal and vertical lines.
Greater Depth Match five compound shapes, symbols and capital letters to the correct statements using knowledge of horizontal and vertical lines.

Questions 2, 5 and 8 (Varied Fluency)
Developing Identifying lines of symmetry in a regular quadrilateral, using knowledge of horizontal and vertical lines.
Expected State whether a statement is true or false. Identifying lines of symmetry in a regular shape, using knowledge of horizontal and vertical lines.
Greater Depth Identifying lines of symmetry in a compound shape, using knowledge of horizontal and vertical lines.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Recognise and justify an odd one out from four digital clock numbers, using knowledge of symmetry and horizontal and vertical lines.
Expected Explain why a number is the odd one out from six digital clock numbers, using knowledge of symmetry and vertical and horizontal lines.
Greater Depth Recognise and justify an odd one out from eight digital clock numbers, using knowledge of symmetry and horizontal and vertical lines.

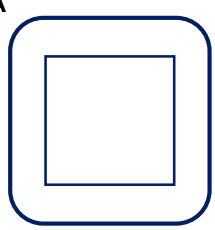
More Year 3 Properties of Shape resources.

Did you like this resource? Don't forget to review it on our website.

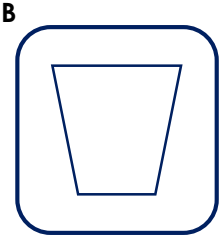
Horizontal and Vertical

1. Match the image to the correct statement.

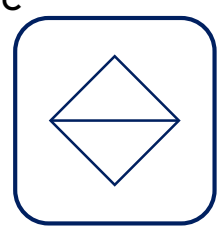
A



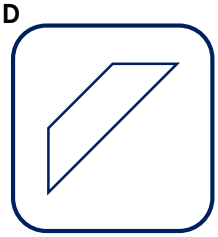
B



C



D



1	2	3	4
2 horizontal lines 0 vertical lines	1 horizontal line 1 vertical line	2 horizontal lines 2 vertical lines	1 horizontal line 0 vertical lines

D

VF
HW/Ext

2. True or false?

This shape has four lines of symmetry altogether.

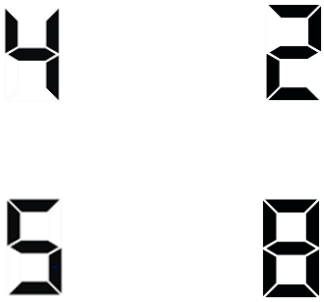
D

VF
HW/Ext

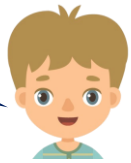
3. Kyron and George are discussing digital clock numbers. Who is correct? Explain your answer.

Kyron

4 is the odd one out because it is the only digit that has less than 2 horizontal lines.



2 is the odd one out because it is the only digit that has any lines of symmetry.



George

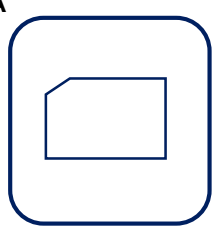
D

RPS
HW/Ext

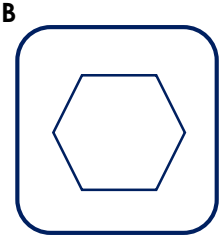
Horizontal and Vertical

4. Match the image to the correct statement.

A

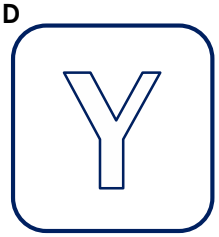


B



C

D



1 — 4 horizontal lines, 4 vertical lines

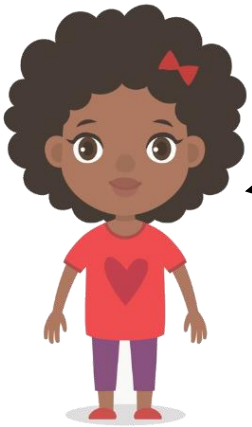
2 — 2 horizontal lines, 2 vertical lines

3 — 3 horizontal lines, 2 vertical lines

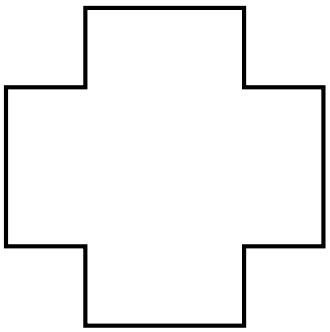
4 — 2 horizontal lines, 0 vertical lines

VF
HW/Ext

5. True or false?



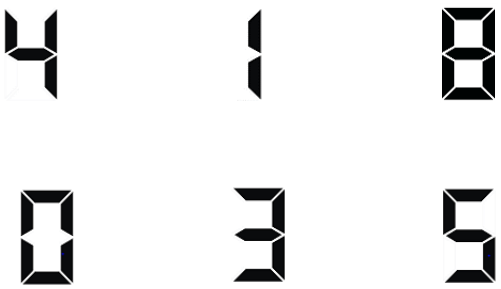
This shape only has a vertical line of symmetry.



VF
HW/Ext

6. Hope and Tom are discussing digital clock numbers. Who is correct? Explain your answer.

Hope: 1 is the odd one out because it is the only number that has no horizontal lines.



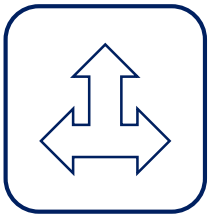
Tom: 8 is the odd one out because it is the only digit that has two lines of symmetry.

RPS
HW/Ext

Horizontal and Vertical

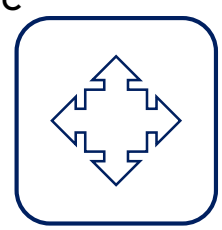
7. Match the image to the correct statement.

A



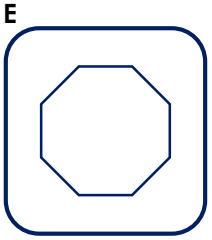
B

C



D

E

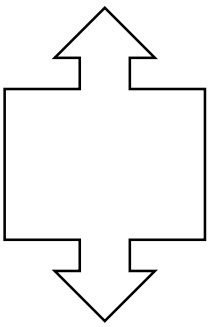


1	2	3	4	5
4 horizontal lines 0 vertical lines	5 horizontal lines 4 vertical lines	2 horizontal lines 2 vertical lines	5 horizontal lines 6 vertical lines	12 horizontal lines 11 vertical lines

VF
HW/Ext

8. True or false?

This shape has more horizontal lines than vertical lines and two lines of symmetry.

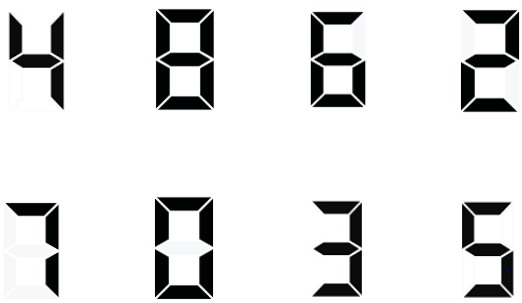


VF
HW/Ext

9. Lexie and Finley are discussing digital clock numbers. Who is correct? Explain your answer.

Lexie

0 is the odd one out because it is the only digit that has an even number of horizontal sides.



7 is the odd one out because it is the only digit that has no lines of symmetry.

Finley

RPS
HW/Ext

Homework/Extension
Horizontal and Vertical

Developing

1. A3, B1, C4, D2
2. False – a rectangle only has two lines of symmetry. One line of symmetry is horizontal and the other is vertical.
3. Kyron is correct because all of the other digits shown have three horizontal lines. George is incorrect because the digit '2' does not have any lines of symmetry. The only digit shown which has any lines of symmetry is '8'.

Expected

4. A2, B4, C1, D3
5. False because the shape also has a horizontal line of symmetry (and diagonal lines).
6. Hope is correct because the digit '1' is the only number that is made up of only vertical lines. Tom is not correct because the digit '0' also has two lines of symmetry.

Greater Depth

7. A4, B1, C5, D2, E3
8. True
9. Lexie is correct because the digit '0' has two horizontal lines and 2 is an even number. Finley is incorrect because the numbers 2, 4, 5 and 6 also have no lines of symmetry.