

Varied Fluency

Step 3: Count Vertices on 2D Shapes

National Curriculum Objectives:

Mathematics Year 2: (2G2a) [Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line](#)

Differentiation:

Developing Questions to support identifying vertices on 2D shapes in regular 2D shapes. All shapes presented in the same orientation and size. Visual support provided where necessary.

Expected Questions to support identifying vertices on 2D shapes in regular and some irregular 2D shapes. All shapes presented in different orientations and sizes. Visual support provided where necessary.

Greater Depth Questions to support identifying vertices on 2D shapes in regular and irregular 2D shapes. All shapes presented in different orientations and sizes. Includes irregular shapes and some regular shapes. No visual support provided.

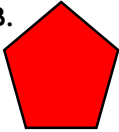
More [Year 2 Properties of Shape](#) resources.

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

Count Vertices on 2D Shapes

Count Vertices on 2D Shapes

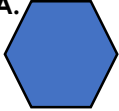
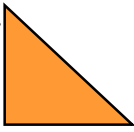
1a. Complete the table.

Shape	Number of Sides	Number of Vertices	Name of Shape
A. 	4		
B. 			

☆ pentagon hexagon rectangle

VF

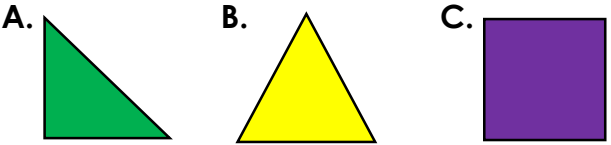
1b. Complete the table.

Shape	Number of Sides	Number of Vertices	Name of Shape
A. 	6		
B. 			

☆ rectangle triangle hexagon

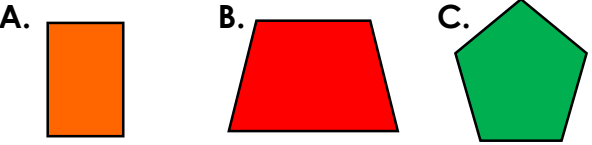
VF

2a. Tick the odd one out.



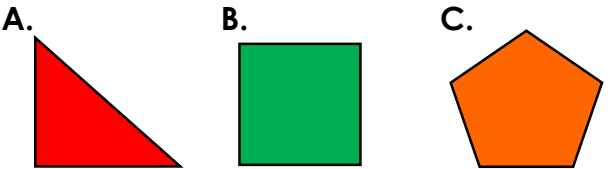
VF

2b. Tick the odd one out.



VF

3a. Match the shapes to the correct number of vertices.



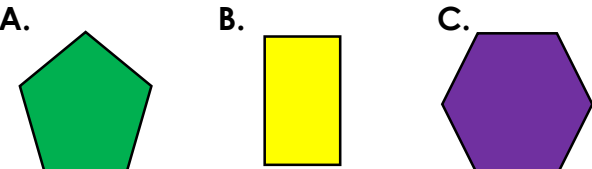
4

3

5

VF

3b. Match the shapes to the correct number of vertices.



6

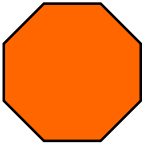
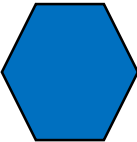
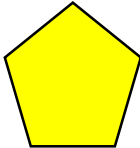
4

5

VF

4a. Name the shape.

I have 1 more vertex than a rectangle.



pentagon

hexagon

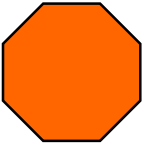
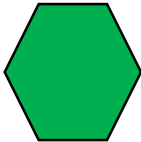
octagon



VF

4b. Name the shape.

I have 1 more vertex than a pentagon.



rectangle

hexagon

octagon

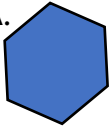
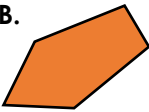


VF

Count Vertices on 2D Shapes

Count Vertices on 2D Shapes

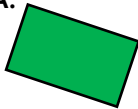
5a. Complete the table.

Shape	Number of Sides	Number of Vertices	Name of Shape
A. 	6		
B. 			

★ pentagon hexagon octagon

VF

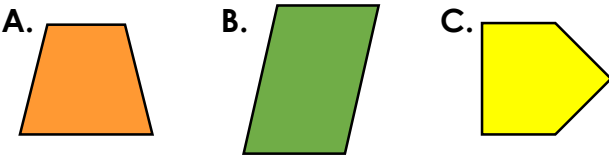
5b. Complete the table.

Shape	Number of Sides	Number of Vertices	Name of Shape
A. 		4	
B. 			

★ rectangle pentagon hexagon

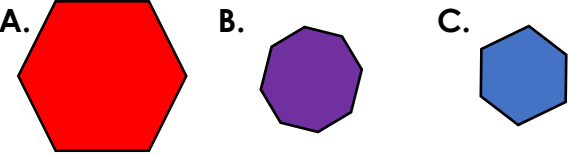
VF

6a. Tick the odd one out.



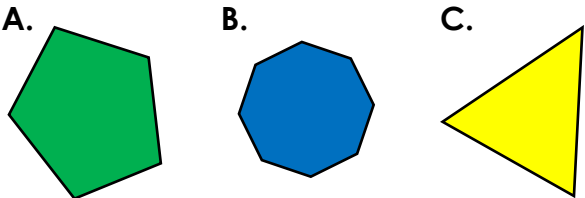
VF

6b. Tick the odd one out.



VF

7a. Match the shapes to the correct number of vertices.



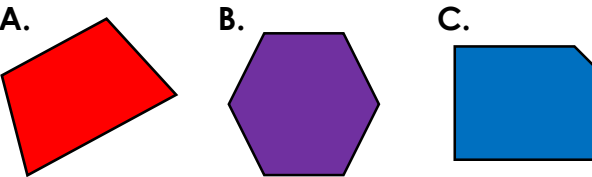
8

3

5

VF

7b. Match the shapes to the correct number of vertices.



6

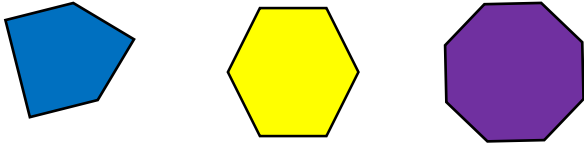
4

5

VF

8a. Name the shape.

I have double the number of vertices as a rectangle.



pentagon

hexagon

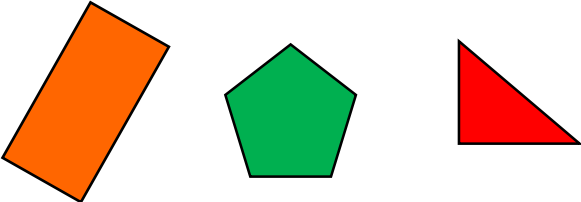
octagon



VF

8b. Name the shape.

I have 3 fewer vertices than an octagon.



rectangle

pentagon

triangle



VF

Count Vertices on 2D Shapes

Count Vertices on 2D Shapes

9a. Complete the table.

Picture of Shape	Number of Sides	Number of Vertices	Name of Shape
A.	6		
B.		8	



VF

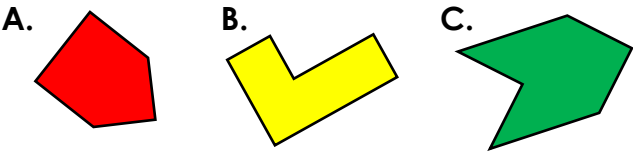
9b. Complete the table.

Picture of Shape	Number of Sides	Number of Vertices	Name of Shape
A.		5	
B.	4		



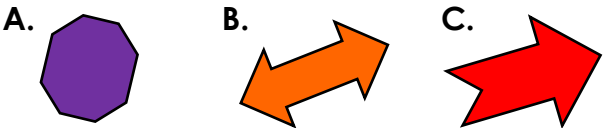
VF

10a. Tick the odd one out.



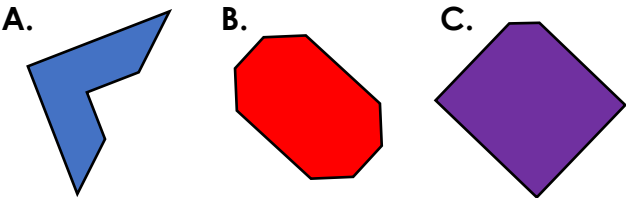
VF

10b. Tick the odd one out.



VF

11a. Match the shapes to the correct number of vertices.



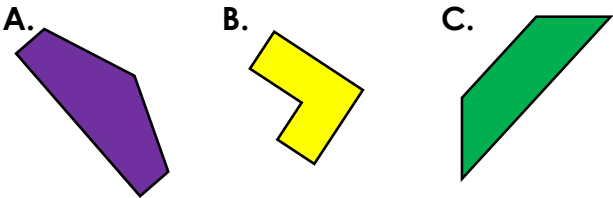
6

8

5

VF

11b. Match the shapes to the correct number of vertices.



6

4

5

VF

12a. Name the shape.

I have three more vertices than a pentagon.



VF

12b. Name the shape.

I have the same number of vertices as two triangles.



VF

Varied Fluency
Count Vertices on 2D Shapes

Developing

- 1a. **A. 4, 4, rectangle; B. 5, 5, pentagon**
2a. **C**
3a. **A. 3; B. 4; C. 5**
4a. **pentagon**

Expected

- 5a. **A. 6, 6, hexagon; B. 5, 5, pentagon**
6a. **C**
7a. **A. 5; B. 8; C. 3**
8a. **octagon**

Greater Depth

- 9a. **A. Picture of hexagon, 6, 6, hexagon**
B. Picture of octagon, 8, 8, octagon
10a. **A**
11a. **A. 6; B. 8; C. 5**
12a. **octagon**

Varied Fluency
Count Vertices on 2D Shapes

Developing

- 1b. **A. 6, 6, hexagon; B. 3, 3, triangle**
2b. **C**
3b. **A. 5; B. 4; C. 6**
4b. **hexagon**

Expected

- 5b. **A. 4, 4, rectangle; B. 6, 6, hexagon**
6b. **B**
7b. **A. 4; B. 6; C. 5**
8b. **pentagon**

Greater Depth

- 9b. **A. Picture of pentagon, 5, 5, pentagon**
B. Picture of a quadrilateral e.g. square, 4, 4, name of a quadrilateral e.g. square
10b. **B**
11b. **A. 5; B. 6; C. 4**
12b. **hexagon**