Homework/Extension
Step 4: Quadrilaterals

National Curriculum Objectives:

Mathematics Year 4: (4G2a) Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Sort the shapes into the Venn diagram using knowledge of quadrilaterals and their properties. Includes right angles and 3 types of quadrilateral. Shapes are presented in the standard orientation.
Expected Sort the shapes into the Venn diagram using knowledge of quadrilaterals and their properties. Includes right angles, parallel lines and 5 types of quadrilateral. Shapes are presented in the standard orientation.
Greater Depth Sort the shapes into the Venn diagram using knowledge of quadrilaterals and their properties. Includes right angles, parallel lines and 6 types of quadrilateral. Shapes may be presented in different orientations.

Questions 2, 5 and 8 (Varied Fluency)
Developing Decide whether a statement about a quadrilateral is true or false using knowledge of quadrilaterals and their properties. Shape may include right angles and is presented in the standard orientation.
Expected Decide whether a statement about a quadrilateral is true or false using knowledge of quadrilaterals and their properties. Shape may include right angles and parallel lines and is presented in the standard orientation.
Greater Depth Decide whether a statement about a quadrilateral is true or false using knowledge of quadrilaterals and their properties. Shape may include right angles and parallel lines and may be presented in a different orientation.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Identify and explain which of the quadrilaterals is the odd one out using knowledge of quadrilaterals and their properties. Includes right angles and 3 types of quadrilateral. Shapes are presented in the standard orientation.
Expected Identify and explain which of the quadrilaterals is the odd one out using knowledge of quadrilaterals and their properties. Includes right angles, parallel lines and 5 types of quadrilateral. Shapes are presented in the standard orientation.
Greater Depth Identify and explain which of the quadrilaterals is the odd one out using knowledge of quadrilaterals and their properties. Includes right angles, parallel lines and 6 types of quadrilateral. Shapes may be presented in different orientations.

More Year 4 Properties of Shape resources.

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

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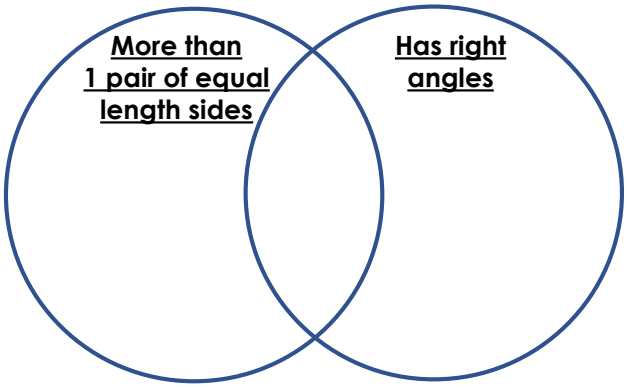
Quadrilaterals

1. Sort the quadrilaterals into the Venn diagram below using the name of the shape.



rectangle
square
parallelogram


D

VF
HW/Ext

2. True or false?

This quadrilateral has 2 pairs of sides that are equal in length and 2 right angles.

D

VF
HW/Ext

3. Look at the quadrilaterals below. Which is the odd one out? Explain your answer.

rectangle

parallelogram

square

D

RPS
HW/Ext

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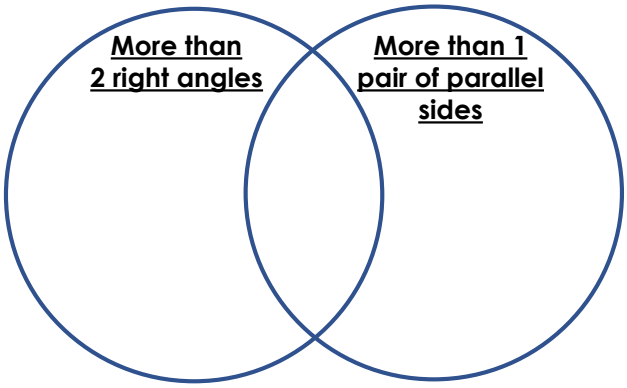
Quadrilaterals

4. Sort the quadrilaterals into the Venn diagram below using the name of the shape.



rectangle
square
trapezium
rhombus
parallelogram

E

VF
HW/Ext

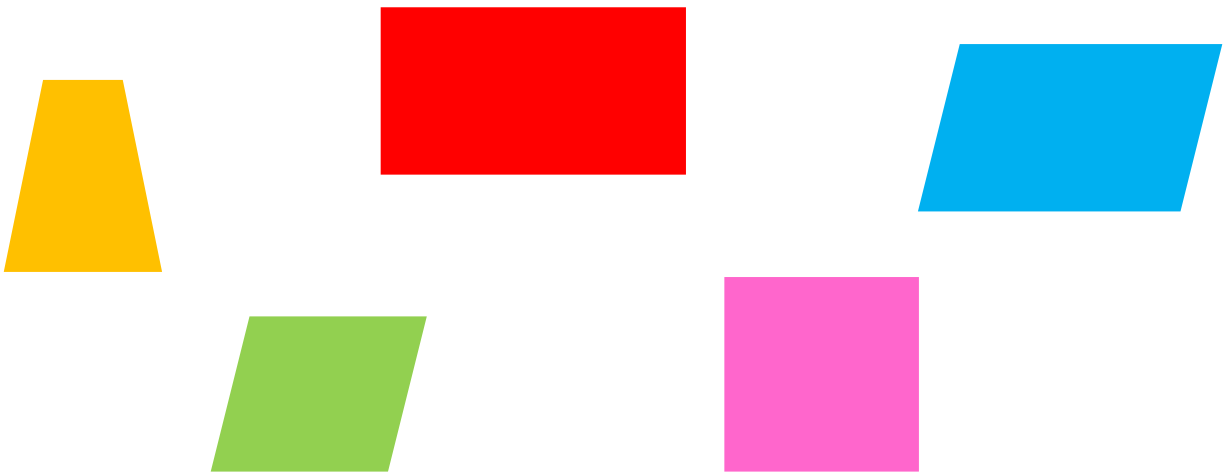
5. True or false?

This quadrilateral has two pairs of parallel sides and two right angles.

E

VF
HW/Ext

6. Look at the quadrilaterals below. Which is the odd one out? Explain your answer.



E

RPS
HW/Ext

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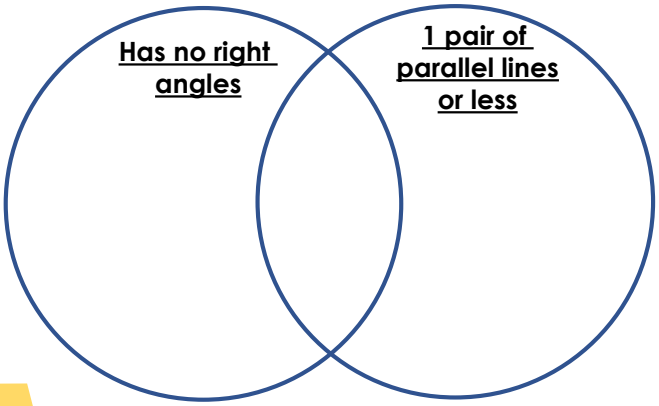
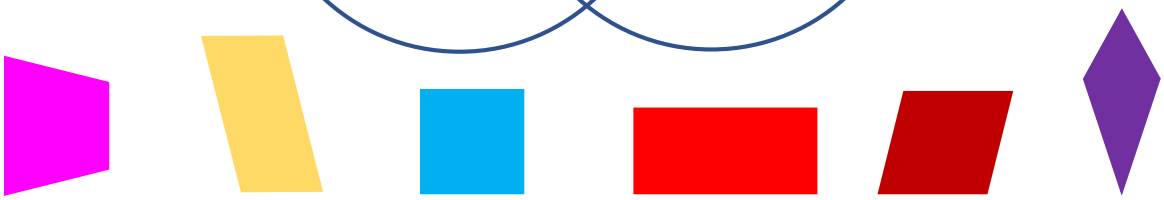
Quadrilaterals

7. Sort the quadrilaterals into the Venn diagram below using the name of the shape.





GD

VF
HW/Ext

8. True or false?

This quadrilateral is a square as all sides are of equal length.

GD

VF
HW/Ext

9. Look at the quadrilaterals below. Which is the odd one out? Explain your answer.

GD

RPS
HW/Ext

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Homework/Extension
Quadrilaterals

Developing

1. Has more than 1 pair of equal length sides: parallelogram
Middle section: square, rectangle

2. False because it is a rectangle. Rectangles do have 2 pairs of sides equal in length but they have 4 right angles, not 2.

3. Various possible answers, for example: the parallelogram is the odd one out as it is the only shape that does not have any right angles.

Expected

4. More than 1 pair of parallel sides: parallelogram, rhombus, trapezium
Middle section: rectangle, square

5. False because it is a trapezium. Trapeziums only have one pair of parallel sides and no right angles.

6. Various possible answers, for example: the square is the odd one out as it is the only quadrilateral that has all equal sides and 4 right angles.

Greater Depth

7. Has no right angles: parallelogram, rhombus
Middle section: trapezium, kite
The square and the rectangle do not fit into any of the categories.

8. False, it is a rhombus. Although all sides are of equal length, this shape has no right angles whereas a square has 4 right angles.

9. Various possible answers, for example: the kite as it is the only shape with no parallel lines.

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