

Varied Fluency

Step 7: Recognise and Describe 2D Shapes

National Curriculum Objectives:

Mathematics Year 3: (3G3a) [Draw 2-D shapes](#)

Mathematics Year 3: (3G4a) [Recognise angles as a property of shape or a description of a turn](#)

Mathematics Year 3: (3G4b) [Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle](#)

Mathematics Year 3: (3G2) [Identify horizontal and vertical lines and pairs of perpendicular and parallel lines](#)

Differentiation:

Developing Questions to support recognising common 2D shapes and basic polygons and describing 2D shapes using the number and length of sides and lines of symmetry.

Expected Questions to support recognising common 2D shapes, quadrilaterals and regular polygons using the number and length of sides, lines of symmetry and types of angles.

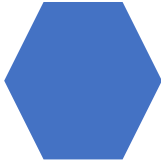
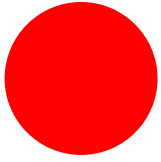
Greater Depth Questions to support recognising common 2D shapes, regular and irregular polygons and quadrilaterals using number and length of sides, lines of symmetry, types of angles and types of lines.

[More resources](#) which follow the same small steps as White Rose.

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

Varied Fluency – Recognise and Describe 2D Shapes

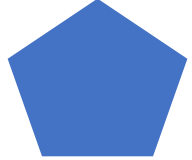
1a. Label the shapes.





VF

1b. Label the shapes.





VF

2a. Draw the shapes in your book. Use a ruler.

- Triangle
- Rectangle



VF

2b. Draw the shapes in your book. Use a ruler.

- Square
- A shape with less than 5 sides.



VF

3a. Write a list of objects from your classroom which have 4 sides.



VF

3b. Write a list of objects from your classroom which have at least one line of symmetry.

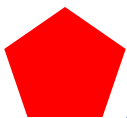


VF

4a. Read the description.

- Less than 5 sides.
- 1 line of symmetry.

Circle the shape it is describing.



VF

4b. Read the description.

- 2 lines of symmetry.
- Less than 6 sides.

Circle the shape it is describing.



VF

5a. Guess the shape.

I have:

- 5 lines of symmetry.
- 5 sides.

I am a



VF

5b. Guess the shape.

I have:

- The same number of sides and lines of symmetry.
- I have 8 sides.

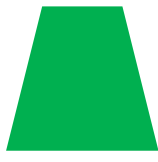
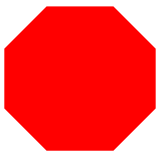
I am a



VF

Varied Fluency – Recognise and Describe 2D Shapes

6a. Label the shapes.





VF

6b. Label the shapes.





VF

7a. Draw the shapes in your book. Use a ruler.

- A rectangle where the length is double the width.
- A quadrilateral with no right angles.



VF

7b. Draw the shapes in your book. Use a ruler.

- A quadrilateral with 1 line of symmetry.
- A triangle with 2 acute angles.



VF

8a. Write a list of objects from your classroom which have at least two right angles.



VF

8b. Write a list of objects from your classroom which have at least one acute angle.

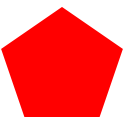


VF

9a. Read the description.

- More than 4 sides.
- 5 lines of symmetry.
- All angles are obtuse.

Circle the shape it is describing.



VF

9b. Read the description.

- No lines of symmetry.
- More than 3 sides.
- 2 angles are obtuse and 2 are acute.

Circle the shape it is describing.



VF

10a. Guess the shape.

I have:

- 2 acute angles.
- Less than 4 sides.
- 1 line of symmetry.

I am a



Now draw me in your book.

VF

10b. Guess the shape.

I have:

- 2 lines of symmetry.
- No acute or obtuse angles.
- Less than 6 sides.

I am a



Now draw me in your book.

VF

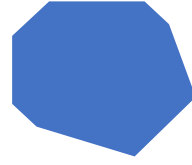
Varied Fluency – Recognise and Describe 2D Shapes

11a. Label the shapes.



VF

11b. Label the shapes.



VF

12a. Draw the shapes in your book. Use a ruler.

- An irregular hexagon with 3 vertical lines.
- A quadrilateral with only 1 pair of parallel lines and 2 right angles.



VF

12b. Draw the shapes in your book. Use a ruler.

- A pentagon where all the sides are different lengths.
- A triangle with 1 horizontal line and 1 obtuse angle.



VF

13a. Write a list of objects from your classroom which have at least 2 pairs of perpendicular lines.



VF

13b. Write a list of objects from your classroom which have obtuse angles.



VF

14a. Read the description.

- 1 pair of parallel lines.
- 2 right angles.
- 1 line of symmetry.

Circle the shape it is describing.



VF

14b. Read the description.

- No lines of symmetry.
- 2 sets of perpendicular lines.
- 1 acute and 1 obtuse angle.

Circle the shape it is describing.



VF

15a. Guess the shape then draw it.

I have:

- No perpendicular or parallel lines.
- 2 acute angles.
- 1 horizontal line but no vertical lines
- More sides than a pentagon but less sides than an octagon.



VF

15b. Guess the shape then draw it.

I have:

- 1 set of perpendicular lines.
- No parallel lines.
- 1 vertical and 1 horizontal line of different lengths.
- Less sides than a quadrilateral.



VF

Varied Fluency – Recognise and Describe 2D Shapes

Developing

- 1a. Circle, hexagon, square
- 1b. Triangle, rectangle, pentagon
- 2a. Shapes drawn accurately with a ruler.
- 2b. Shapes drawn accurately with a ruler.
- 3a. Relevant items listed. Answers will vary.
- 3b. Relevant items listed. Answers will vary.
- 4a. Triangle
- 4b. Rectangle
- 5a. Pentagon
- 5b. Octagon

Expected

- 6a. Square/quadrilateral, octagon, quadrilateral/trapezium
- 6b. Quadrilateral/parallelogram, rectangle, semi-circle
- 7a. Shapes drawn accurately with a ruler. Rectangle has double length to width e.g, 2 x 4, 3 x 6 or 4 x 8.
- 7b. Shapes drawn accurately with a ruler.
- 8a. Relevant items listed. Answers will vary.
- 8b. Relevant items listed. Answers will vary.
- 9a. Pentagon
- 9b. Parallelogram (do not accept quadrilateral as there is also a rectangle to choose from)
- 10a. Isosceles triangle
- 10b. Rectangle (do not accept square as it has 4 lines of symmetry)

Greater Depth

- 11a. Irregular pentagon, right-angle triangle, quadrilateral/rhombus
- 11b. Irregular hexagon, irregular octagon, quadrilateral/kite
- 12a. Shapes drawn accurately with a ruler and matching the criteria.
- 12b. Shapes drawn accurately with a ruler and matching the criteria.
- 13a. Relevant items listed. Answers will vary.
- 13b. Relevant items listed. Answers will vary.
- 14a. Red arrow
- 14b. Blue quadrilateral
- 15a. Irregular hexagon or heptagon
- 15b. Right-angle triangle