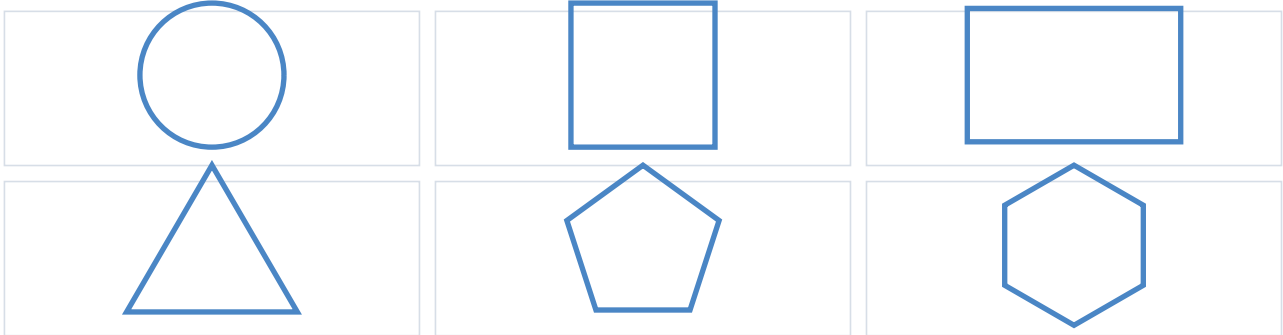


2D Shapes & Geometry

A fun and colourful worksheet pack



Skills in this pack

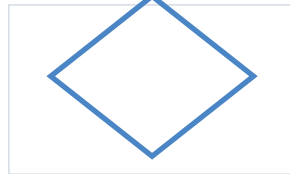
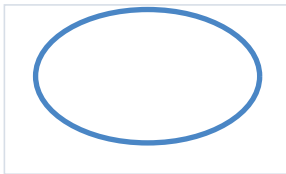
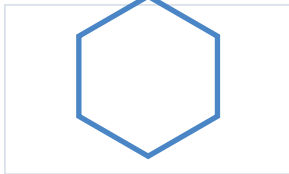
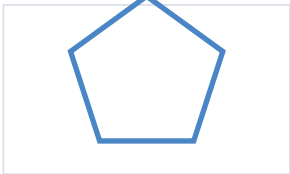
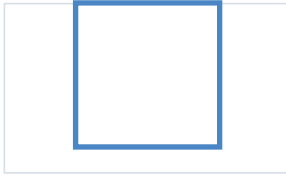
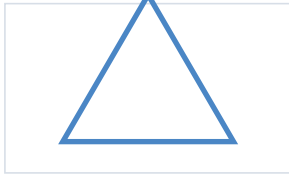
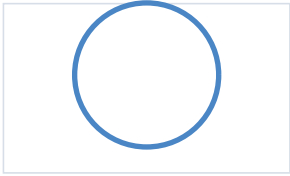
- Identify and name common 2D shapes
- Describe shapes using sides and vertices
- Sort shapes by their properties
- Recognise regular and irregular shapes
- Explore symmetry and simple lines of symmetry
- Use position and direction vocabulary
- Apply geometry to real-life problems

Name: _____ Date: _____

1. Shape Detectives

Look at the shapes and write their names.

Name: _____ Date: _____



1. Which shape has 3 sides? _____
2. Which shape has 5 sides? _____
3. Which shape has no straight sides? _____

2. Sides & Vertices

A vertex is a corner. Count carefully.

Name: _____ Date: _____

Shape	Number of sides	Number of vertices
Triangle	_____	_____
Square	_____	_____
Rectangle	_____	_____
Pentagon	_____	_____
Hexagon	_____	_____
Circle	_____	_____

Think: Which 2D shape has the most sides in the table? _____

3. Shape Properties

Read each clue and name the shape.

Name: _____ Date: _____

I have 3 straight sides and 3 vertices. Who am I? _____

I have 4 equal sides and 4 vertices. Who am I? _____

I have 4 sides. My opposite sides are equal. Who am I? _____

I have 5 straight sides. Who am I? _____

I have 6 straight sides. Who am I? _____

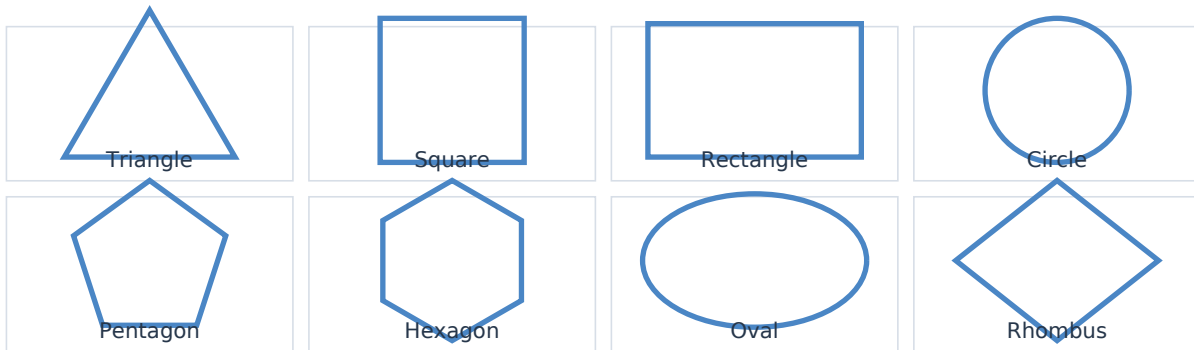
I have no straight sides and no vertices. Who am I? _____

I have 4 equal sides but I look like a diamond. Who am I? _____

4. Sort the Shapes

Use the shape names to complete the groups.

Name: _____ Date: _____



A. Shapes with 4 sides: _____

B. Shapes with 5 or more sides: _____

C. Shapes with no straight sides: _____

D. Shapes with 3 sides: _____

5. Regular or Irregular?

A regular shape has equal sides and equal angles. Look at the examples.

Name: _____ Date: _____

Shape description	Regular / Irregular
A square with all sides equal	_____
A rectangle that is not a square	_____
An equilateral triangle	_____
A triangle with three different side lengths	_____
A regular pentagon	_____
A hexagon with unequal sides	_____
A circle	_____
A rhombus with all sides equal	_____

Think: Can a square be regular? _____ Why? _____

6. Lines of Symmetry

A line of symmetry divides a shape into two matching halves.

Name: _____ Date: _____

Shape	How many lines of symmetry?
Square	_____
Rectangle	_____
Equilateral triangle	_____
Circle	_____
Regular pentagon	_____
Regular hexagon	_____

Draw: Draw one line of symmetry on a square.

Challenge: Does a rectangle have more or fewer lines of symmetry than a square? _____

7. Position & Movement

Use words such as left, right, above, below, between, near and far.

Name: _____ Date: _____

★	▲	●	■
◆	●	▲	★
■	★	◆	●
●	■	★	▲

1. Which symbol is to the right of ▲ in the first row? _____
2. Which symbol is below ★ in the first column? _____
3. Which symbol is between ◆ and ● in the second row? _____
4. Find one ★ that has a ■ directly above or below it. Where is the ■? _____

8. Geometry in Real Life

Use what you know about shapes to solve each problem.

Name: _____ Date: _____

1. A window is shaped like a rectangle. How many sides and vertices does it have?

Answer: _____

2. A road sign is shaped like a triangle. How many sides does it have?

Answer: _____

3. A clock face is a circle. How many vertices does it have?

Answer: _____

4. A floor tile is a square. How many equal sides does it have?

Answer: _____

5. A stop sign is an octagon. Does it have more or fewer sides than a hexagon?

Answer: _____

6. A child draws a shape with 5 sides. What is the name of the shape?

Answer: _____

9. Super Geometry Challenge!

Use everything you have learned about 2D shapes.

Name: _____ Date: _____

1. Name a shape with exactly 4 sides: _____
2. Name a shape with more than 4 sides and fewer than 7 sides: _____
3. How many sides do 2 triangles have altogether? _____
4. A square has 4 vertices. How many vertices do 3 squares have altogether? _____
5. Which has more sides: a pentagon or a triangle? _____
6. Draw a shape with 4 sides that is NOT a square.

7. Draw a shape with 5 sides.

8. Find two shapes that have the same number of sides but different names: _____
and _____

MY CONFIDENCE CHECK

I can name common 2D shapes. ☐ Yes ☐ Almost ☐ I need more practice

I can describe shapes using sides and vertices. ☐ Yes ☐ Almost ☐ I need more practice

I can use geometry words to describe position and shape. ☐ Yes ☐ Almost ☐ I need more practice

Teacher Answer Key

Suggested answers for quick checking.

1. Shape Detectives

Triangle; pentagon; circle. The displayed shapes are circle, triangle, square, rectangle, pentagon, hexagon, oval and rhombus.

2. Sides & Vertices

Triangle: 3,3; square: 4,4; rectangle: 4,4; pentagon: 5,5; hexagon: 6,6; circle: 0,0.
Most sides: hexagon.

3. Shape Properties

Triangle; square; rectangle; pentagon; hexagon; circle; rhombus.

4. Sort the Shapes

A: square, rectangle, rhombus. B: pentagon, hexagon. C: circle, oval. D: triangle.
(Rhombus is included in the 4-sided group.)

5. Regular or Irregular

Square: regular. Rectangle: irregular unless it is a square. Equilateral triangle: regular. Unequal-sided triangle: irregular. Regular pentagon: regular. Unequal hexagon: irregular. Circle: regular in common elementary geometry. Rhombus: regular only if it is also a square. A square can be regular because all sides and angles are equal.

6. Symmetry

Square: 4; rectangle: 2; equilateral triangle: 3; circle: infinitely many; regular pentagon: 5; regular hexagon: 6. A rectangle has fewer lines of symmetry than a square.

7. Position & Movement

1) ●. 2) ◆. 3) ●. 4) Answers depend on the selected ★; the adjacent ■ is either above or below.

8. Geometry in Real Life

1) 4 sides, 4 vertices. 2) 3 sides. 3) 0 vertices. 4) 4 equal sides. 5) A hexagon has 6 sides; an octagon has 8, so more. 6) Pentagon.

9. Super Challenge

1) Square/rectangle/rhombus/etc. 2) Pentagon or hexagon. 3) 6. 4) 12. 5) Pentagon.
6-7) Answers/drawings vary. 8) Square and rectangle are examples.