

KS1 Therapy: Y2 Maths

Commissioned by The PiXL Club Ltd.
April 2018

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M6a. Can identify and describe 2D shapes using knowledge of properties including number of sides (including in different orientations)



= teacher notes

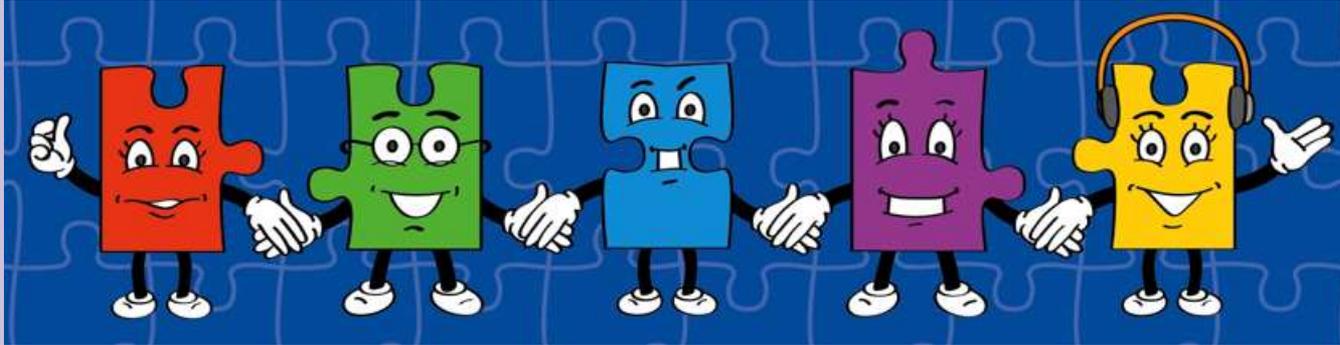


Teacher information

This resource should be used to support Key Marginal pupils for whom you have completed a PLC. It is designed to be delivered as a teaching activity to a small group or individual in order to fill a gap in their understanding. There is no expectation to use the PowerPoint in its entirety. Choose the methods and resources that suit your school's approach to place value, counting and calculation.

Use of this resource should form part of normal, day-to-day teaching, as you would do with a guided teaching group. This teaching resource is based on the National Curriculum expectations for Key Stage 1, with a focus on the laser-sharp statements from the PiXL PLC.

LORIC



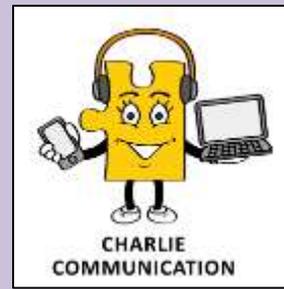
Our Primary Edge attributes help us to become better learners and today is no exception. Before you start this activity, here are some ideas for how you will need your **Charlie** **Communication** skills today:

- Share your ideas
- Describe what you see and feel
- Explain your answers

Command Words:

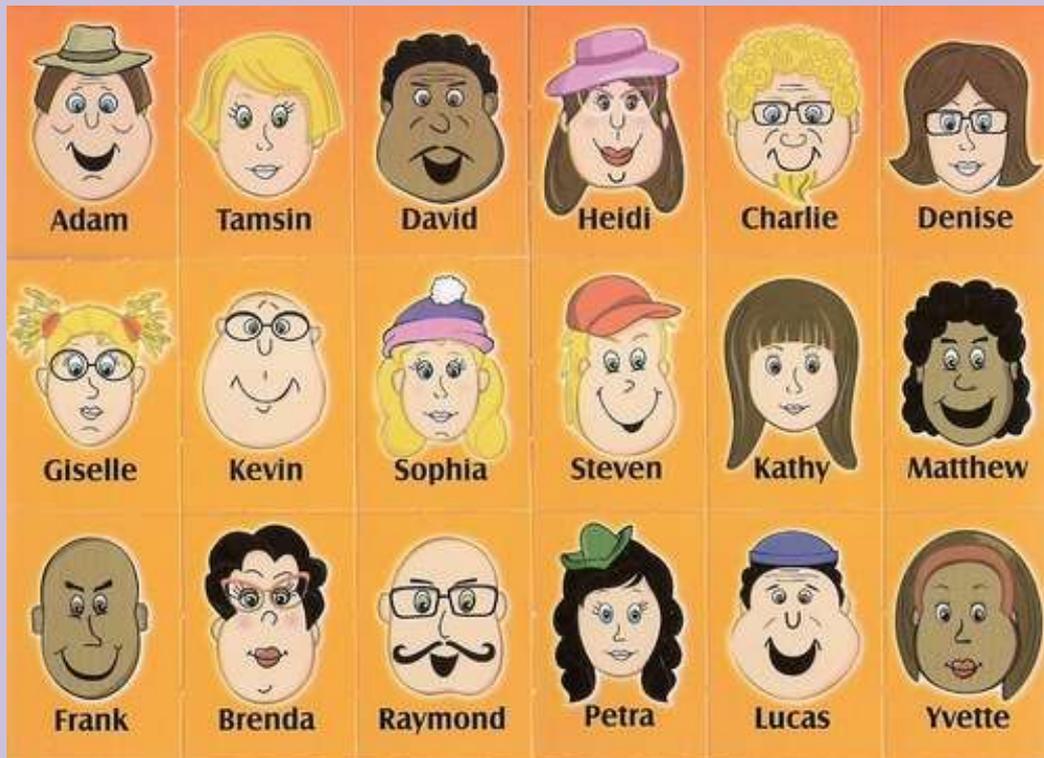
Create Write
Describe Contribute

Developing communication skills



★ Use this activity to help children develop their communication skills before you begin the therapy.

Explain the game of Guess Who? One child describes the face of a character and the others in the group have to guess which face they are describing. Make sure children give their clues in full sentences and encourage them to give specific clues.



Did you give
precise
descriptions?

What I will be looking for today



You will have lots of chances to demonstrate your communication skills today. Here's what I'll be looking for:

- Sharing your own ideas as part of a group
- Describing what you see and feel
- Explaining your answers

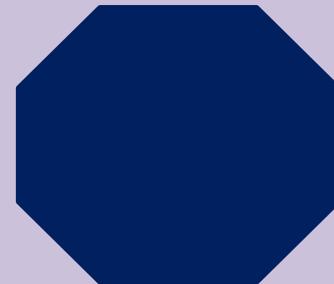
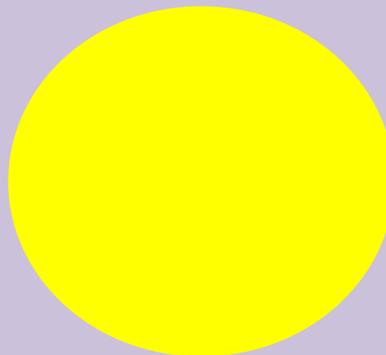
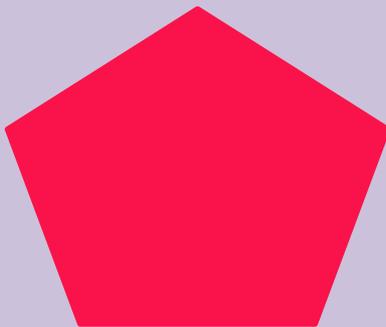
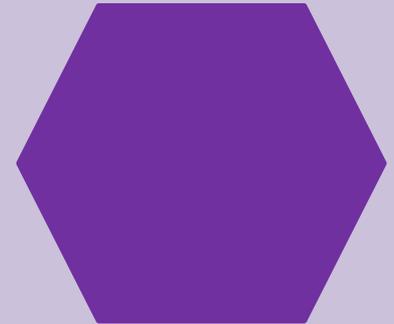
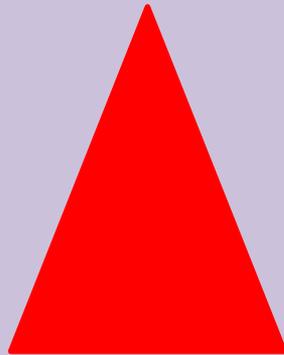
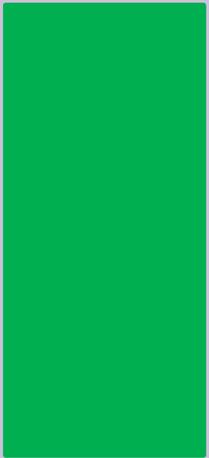


Teacher information

For this therapy children will benefit from having access to 2D shapes.

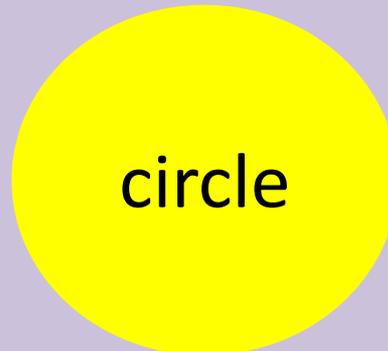
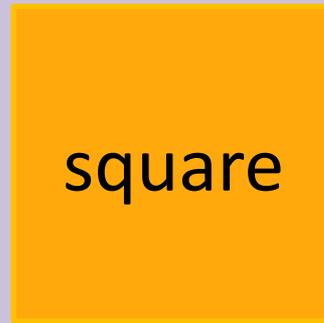
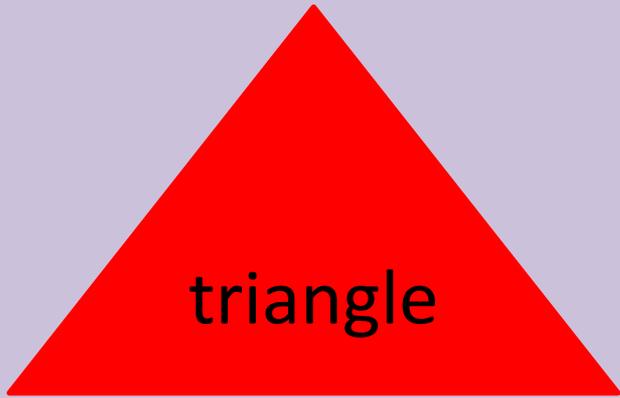
2D Shapes

A 2D shape is a form or an outline which is **flat**.
The 'D' stands for the word **dimensional**.



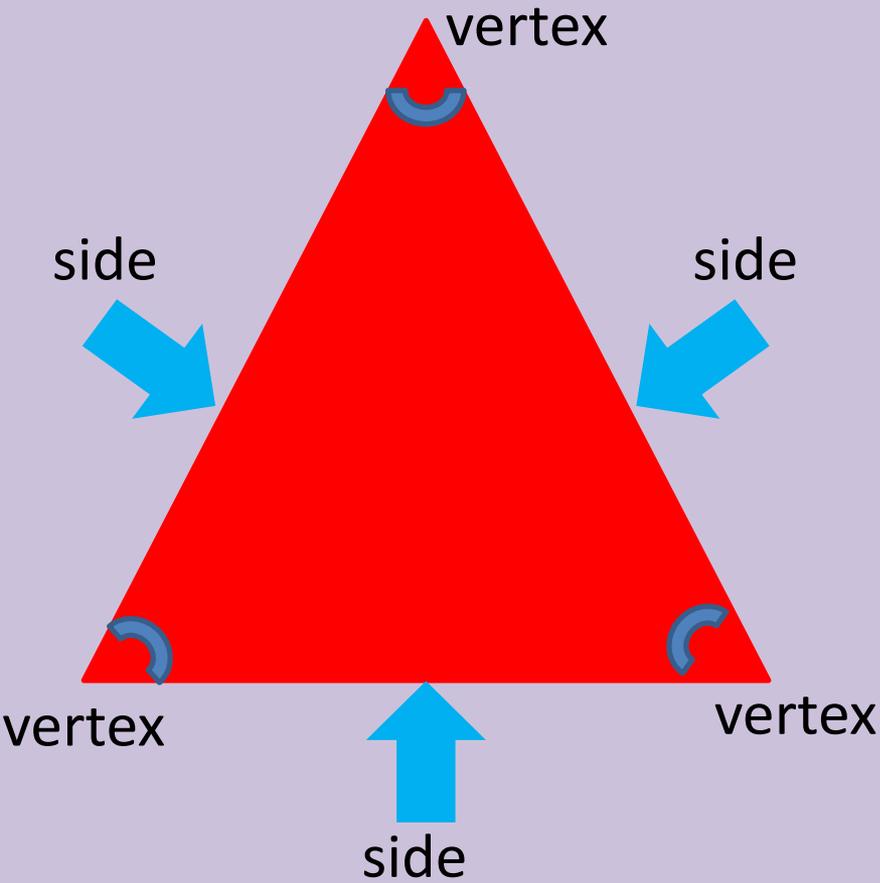
2D Shapes

Can you name these shapes?



2D Shapes

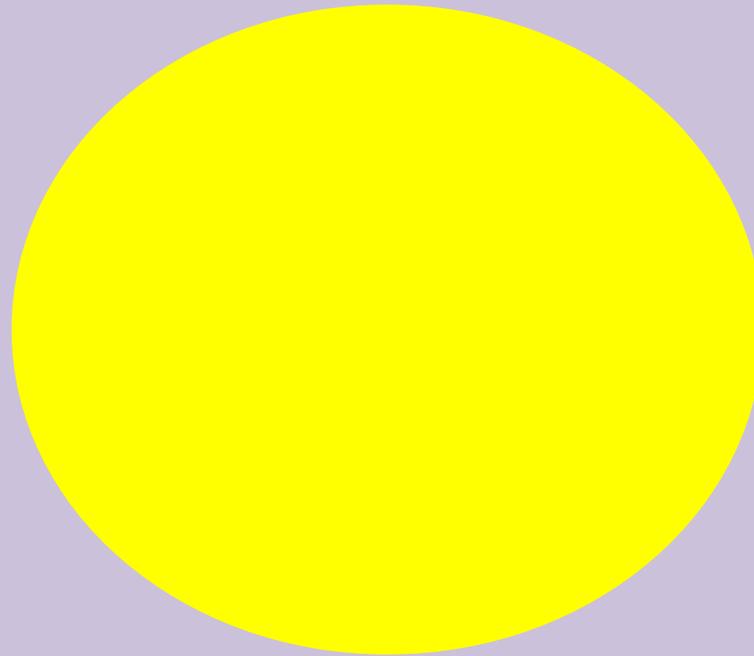
We can use the **properties** of a shape to describe or identify it. The **properties** for 2D shapes include the **number of sides** and **vertices (corners)**.



A triangle has three sides and three vertices (corners).

Practise

Which 2D shape has only one side and no vertices (corners)?



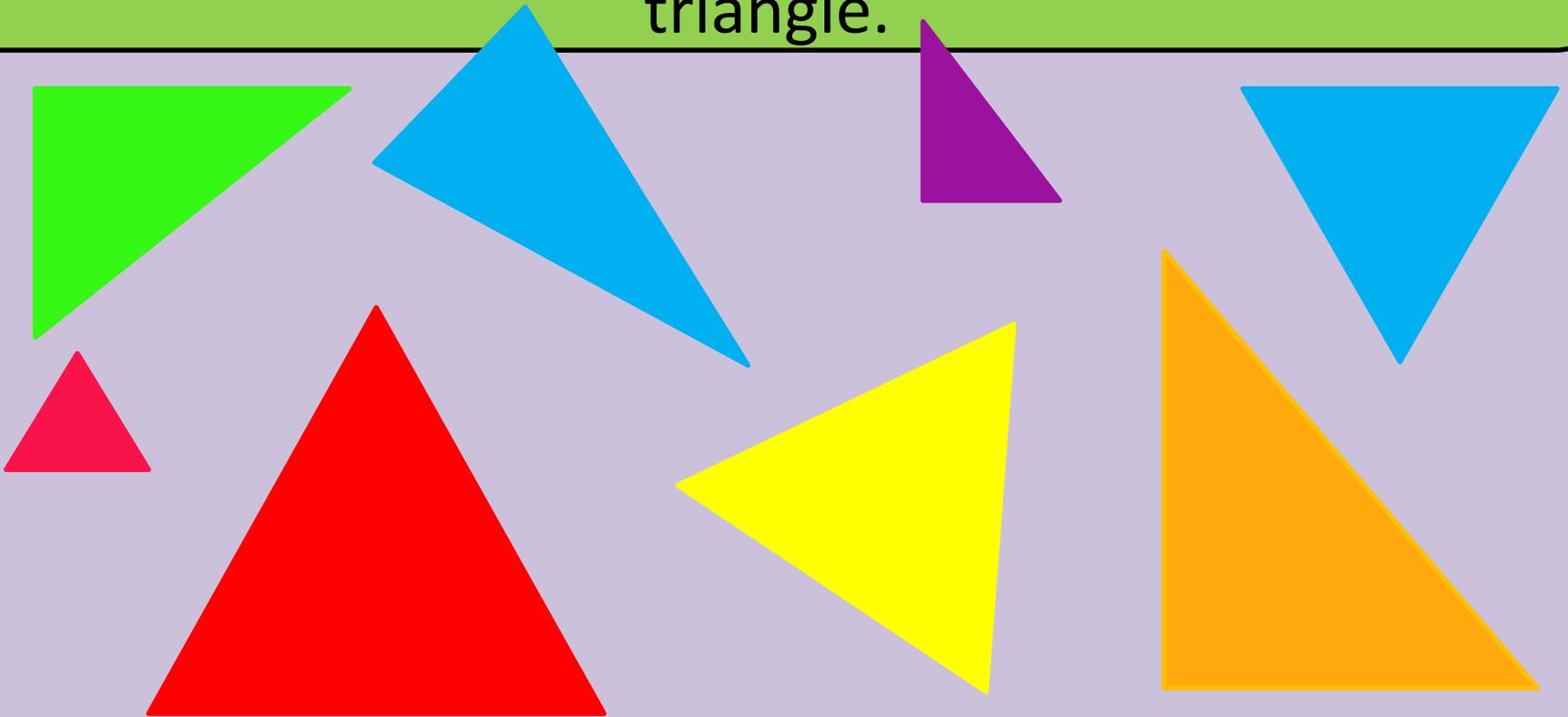
Practise

Can you name two different 2D shapes that both have four straight sides and four vertices (corners)?



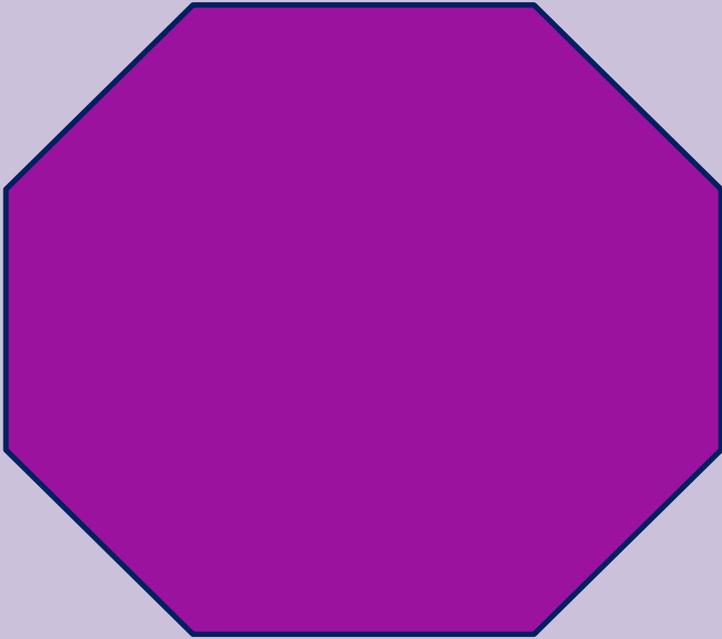
2D Shapes

These are all triangles - it does not matter what size they are or which way up they are. Every shape that has three vertices (corners) and three sides is a triangle.



2D Shapes

Count the sides for this shape.

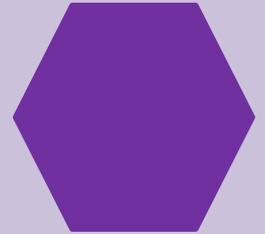
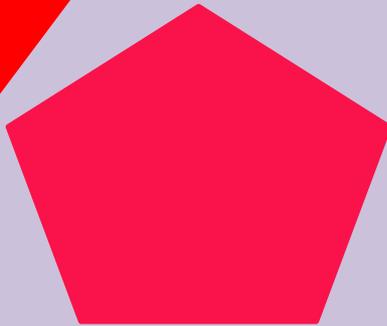
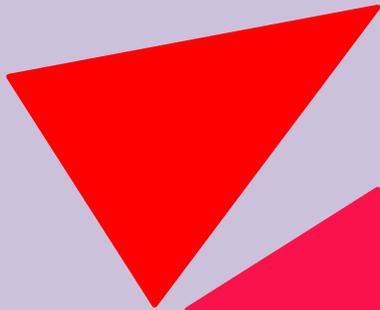
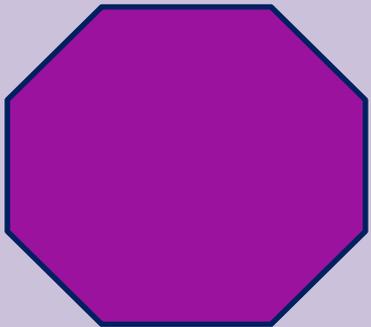


Did you get eight?
Now count the vertices
(corners).

**This is an octagon. It has
eight sides and eight
vertices (corners).**

2D Shapes

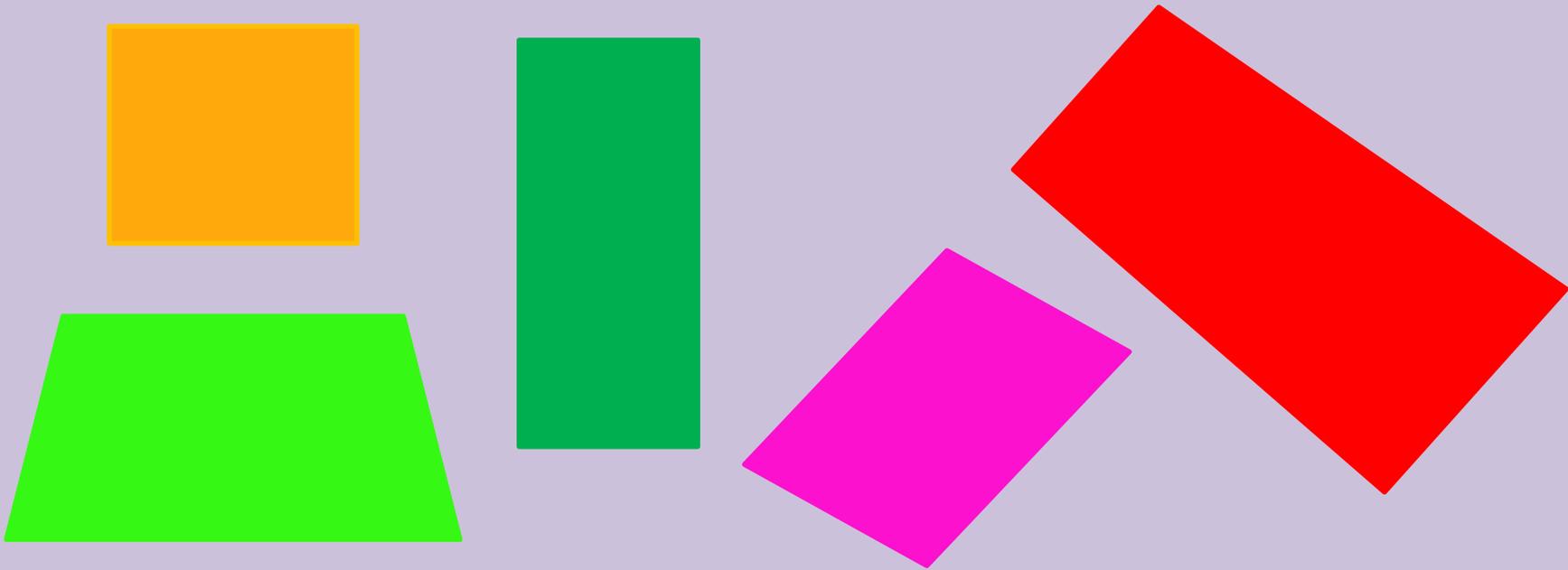
A **polygon** is the name given to all 2D shapes with **straight sides** that are **fully closed** (all of the sides are joined up). The sides must be **straight**.



All of these shapes are polygons.

2D Shapes

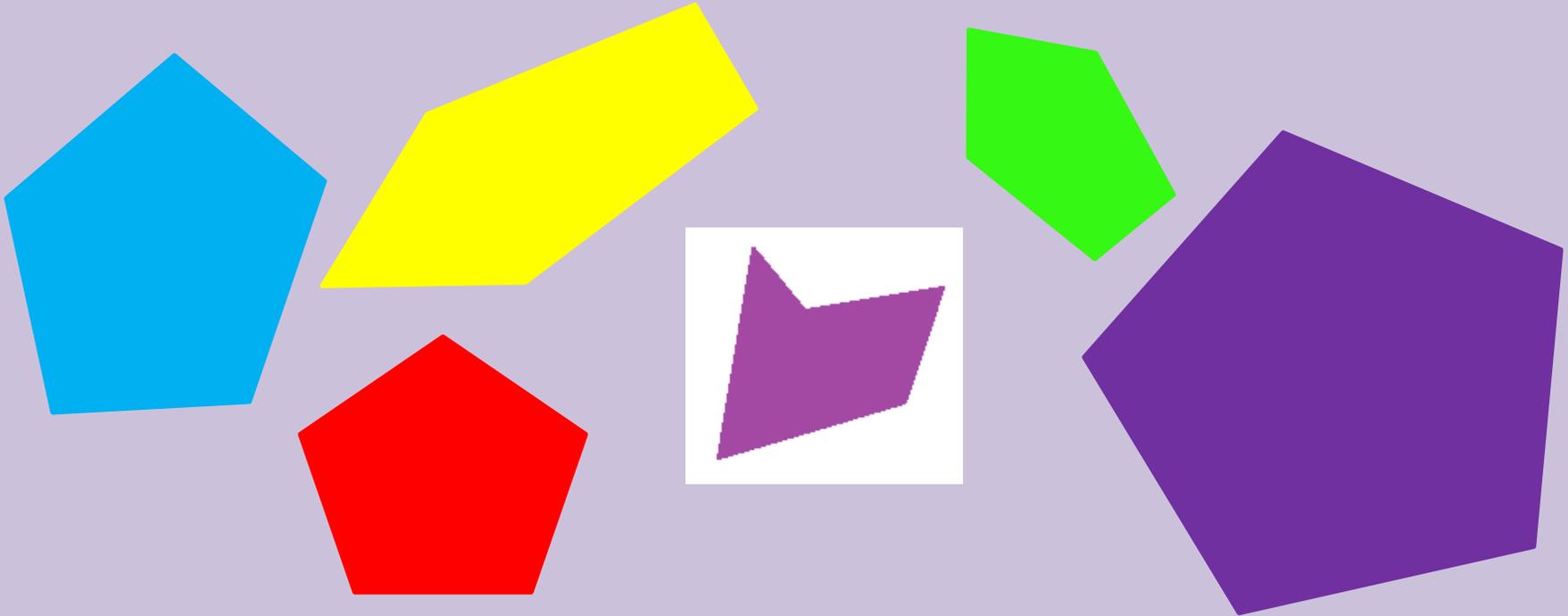
A **quadrilateral** is the name given to all 2D shapes with **four straight sides** and **four vertices (corners)**.



All of these shapes are quadrilaterals.

Practise

Look at the pictures of these shapes. Can you name the shapes you see?



How do you know it is this shape?

Practise



Give the children the opportunity to feel 2D shapes. Allow them to trace around them to make 2D pictures. Children to then label their shapes and record their properties. Provide a shape word bank so they can use the correct spelling.



Teacher information

Show Me Tasks

Once the therapy has been delivered you can use Show Me Tasks to demonstrate that the skill is now secure. They are not intended to be completed all at once and ideally should be done in intervals of a few days after the therapy has been delivered. The challenge in the tasks is progressive.

Show Me Tasks

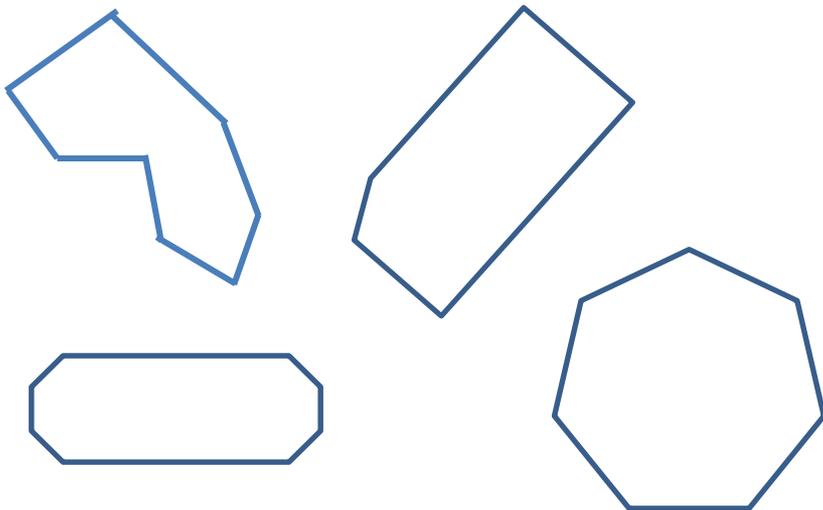
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Tick the shapes that are an octagon.



What shape am I?

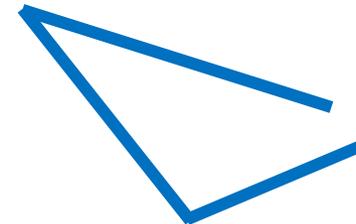
I have five sides and five vertices.

I have one curved side.

I have six sides and six vertices.

Try to draw each of these shapes.

1. Is this a triangle? Explain your answer.



2. Can a square be both a polygon and a quadrilateral? Why?