

KS1 Therapy: Y2 Maths

Commissioned by The PiXL Club Ltd.
April 2018

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M6d. Can compare and sort 2D and 3D shapes including everyday objects using knowledge of properties



= teacher notes

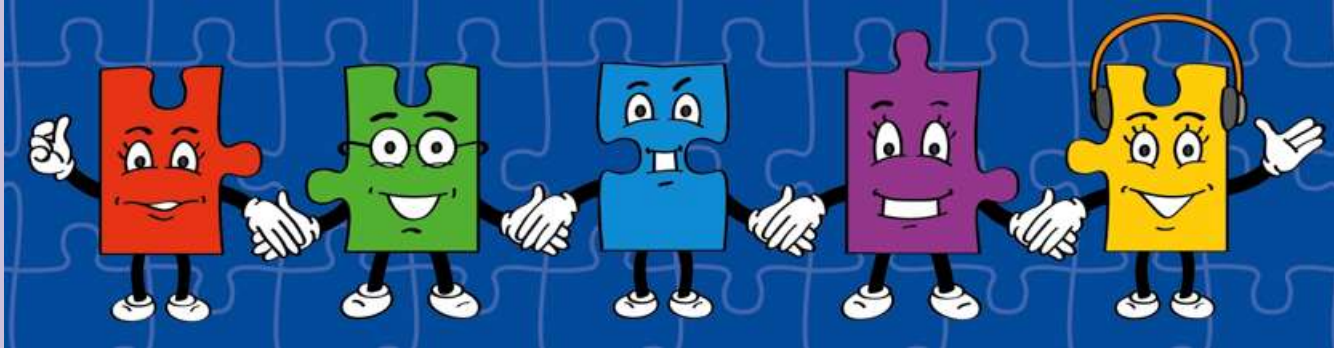


Teacher information

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

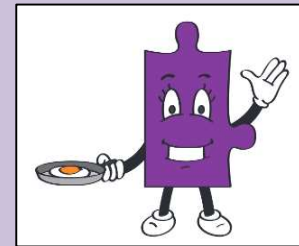


Our Primary Edge attributes help us to become better learners and today is no exception. Before you start this activity, here are some ideas for how you will need your Izzy Initiative skills today:

- Make suggestions
- Create sequences
- Develop your ideas

Command Words:
Volunteer Create
Research Develop
Set up Suggest
Enter

Developing initiative skills



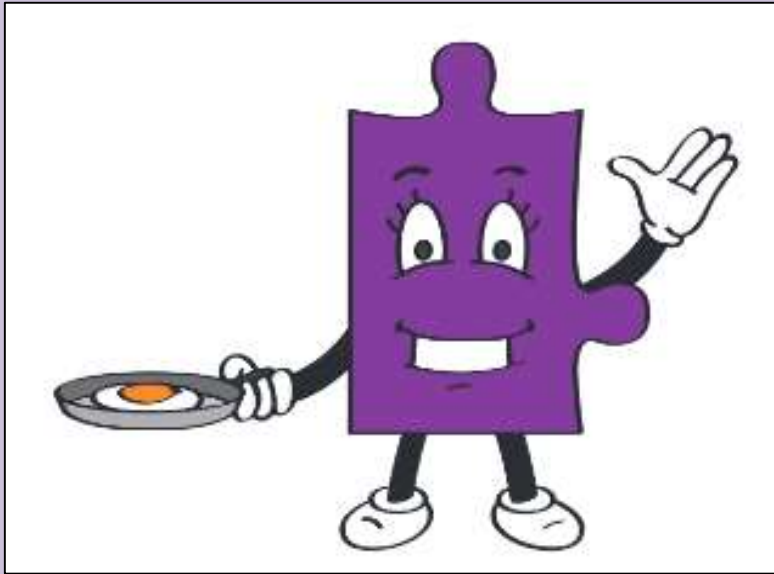
Use this activity to help children develop their initiative skills before you begin the therapy.

Give children some different coloured beads and string or multilink cubes. Ask them to make a sequence with 2 colours. Then ask them to create a sequence with 3 colours and finally 4 colours. Each time suggest a minimum length (e.g. 6 beads or 6 cubes). Remind children that a sequence keeps repeating itself. Once a few sequences have been made, line them up on the desk and make comparisons in their length.



Did you
create
different
sequences?

What I will be looking for today



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

- Making suggestions about how to complete the tasks
- Developing your ideas
- Volunteering to compare objects and shapes

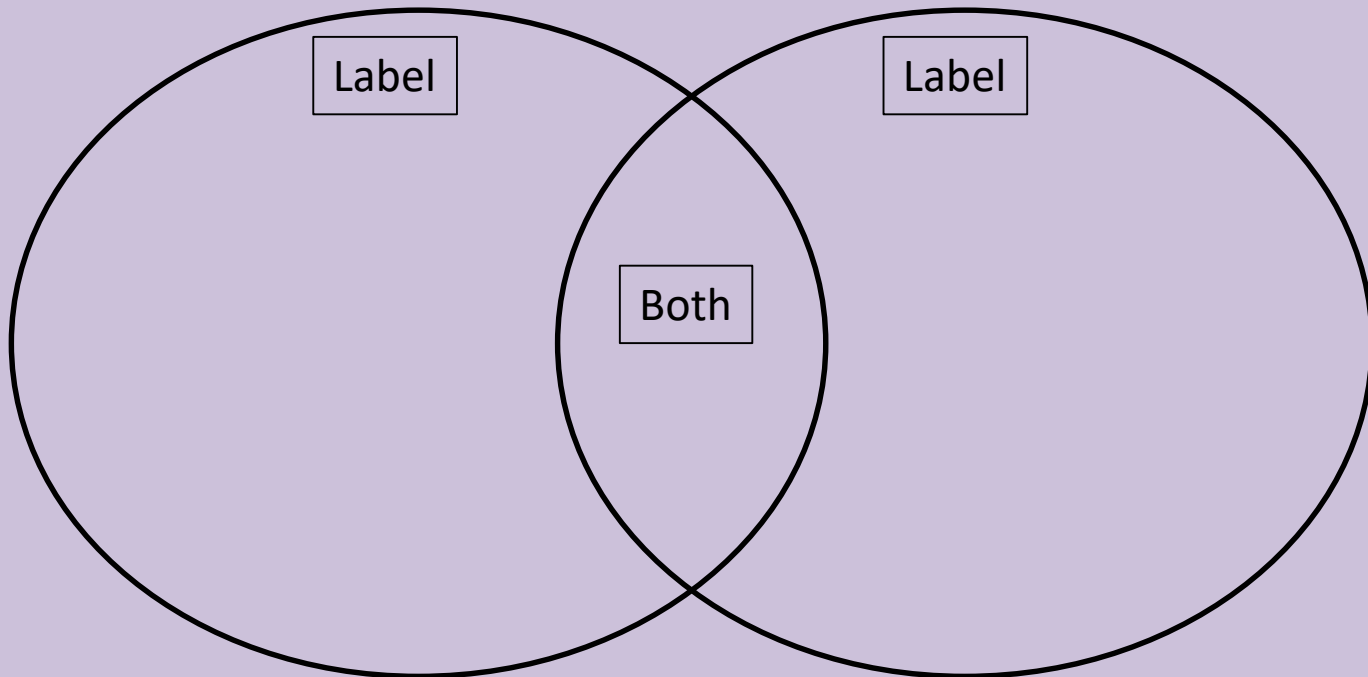


Teacher information

For this therapy children will benefit from having access to 2D and 3D shapes.

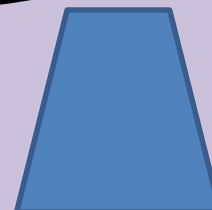
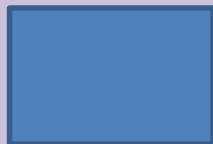
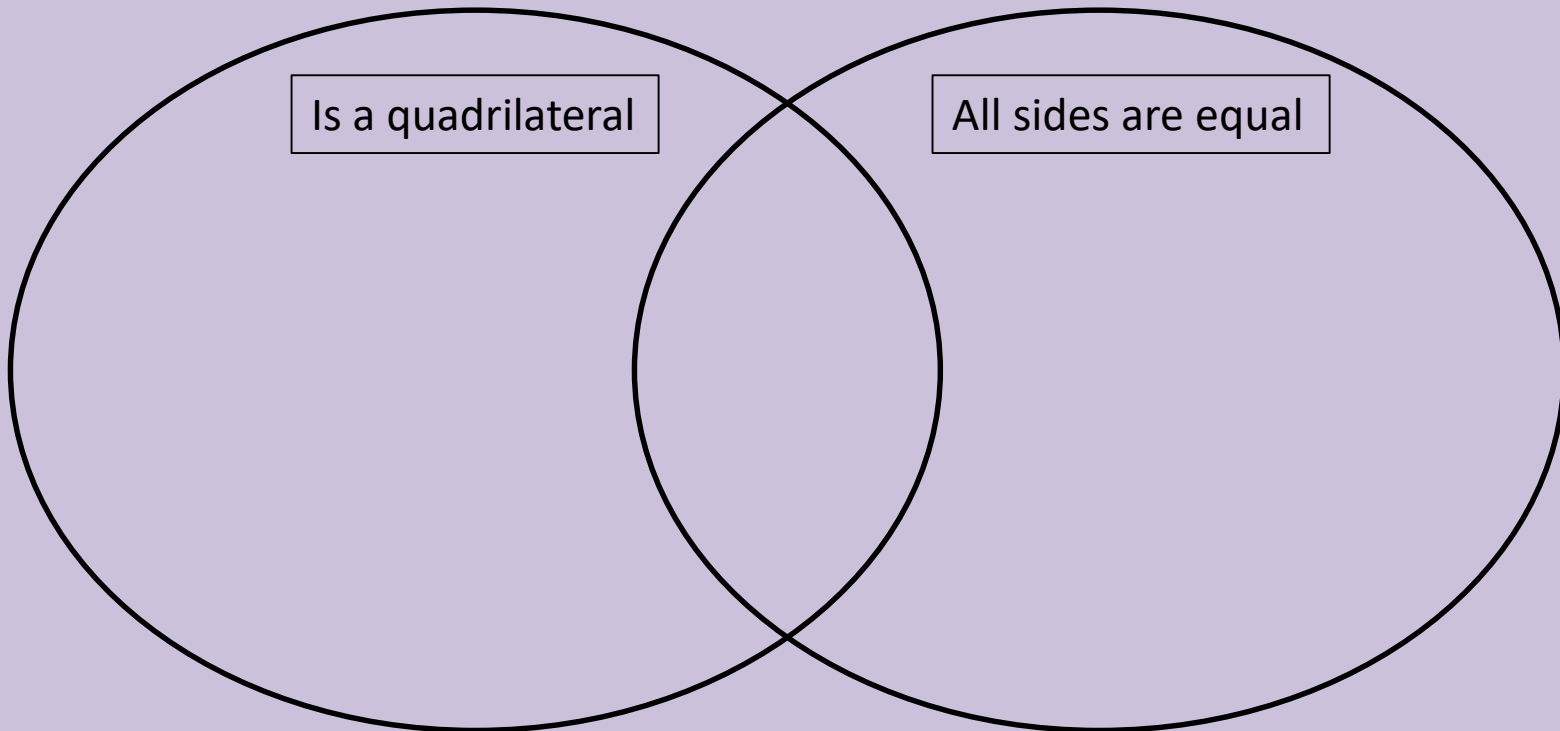
Sorting

We are going to use a Venn Diagram (see below) to sort some shapes. Each circle has a label. If the shape has the **property** described in the label it goes in that circle. If it has both **properties** it goes in the middle.



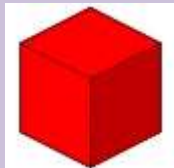
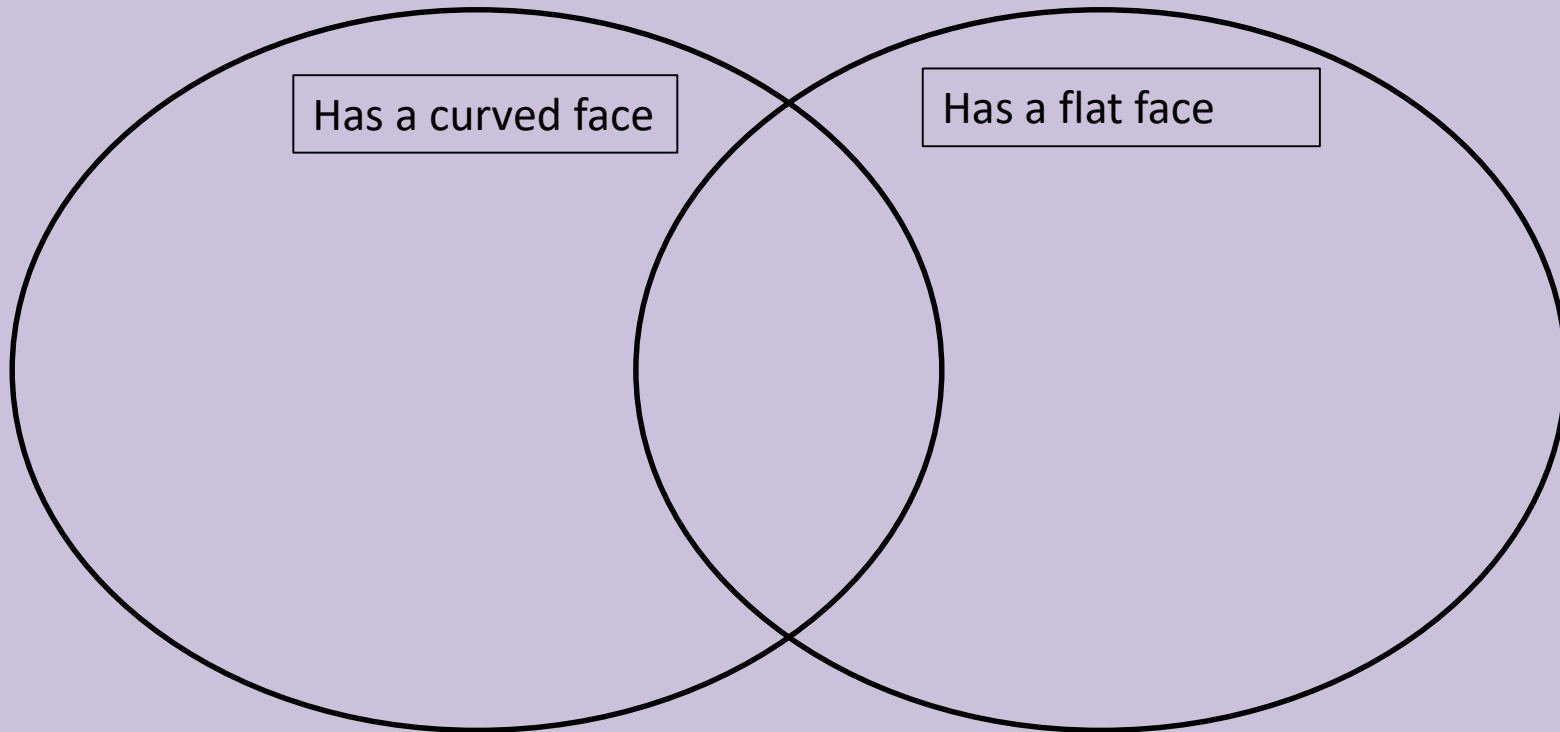
Sorting

Let's sort these shapes into the Venn Diagram.



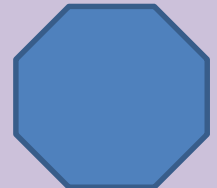
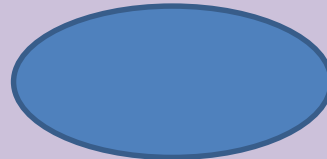
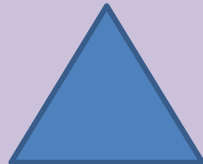
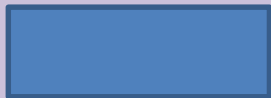
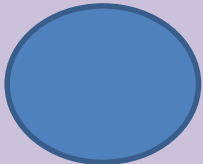
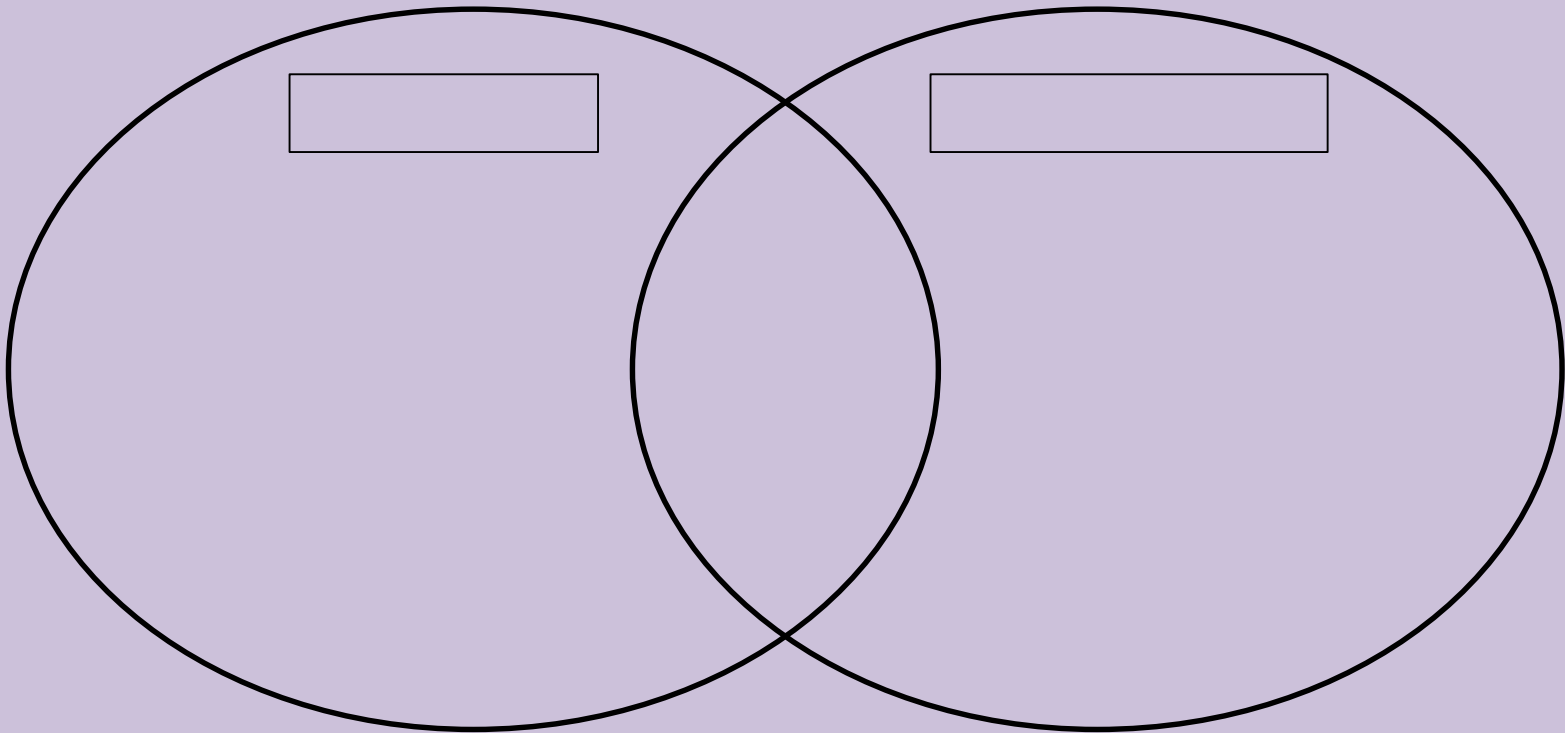
Sorting

We can also sort 3D shapes using a Venn Diagram.



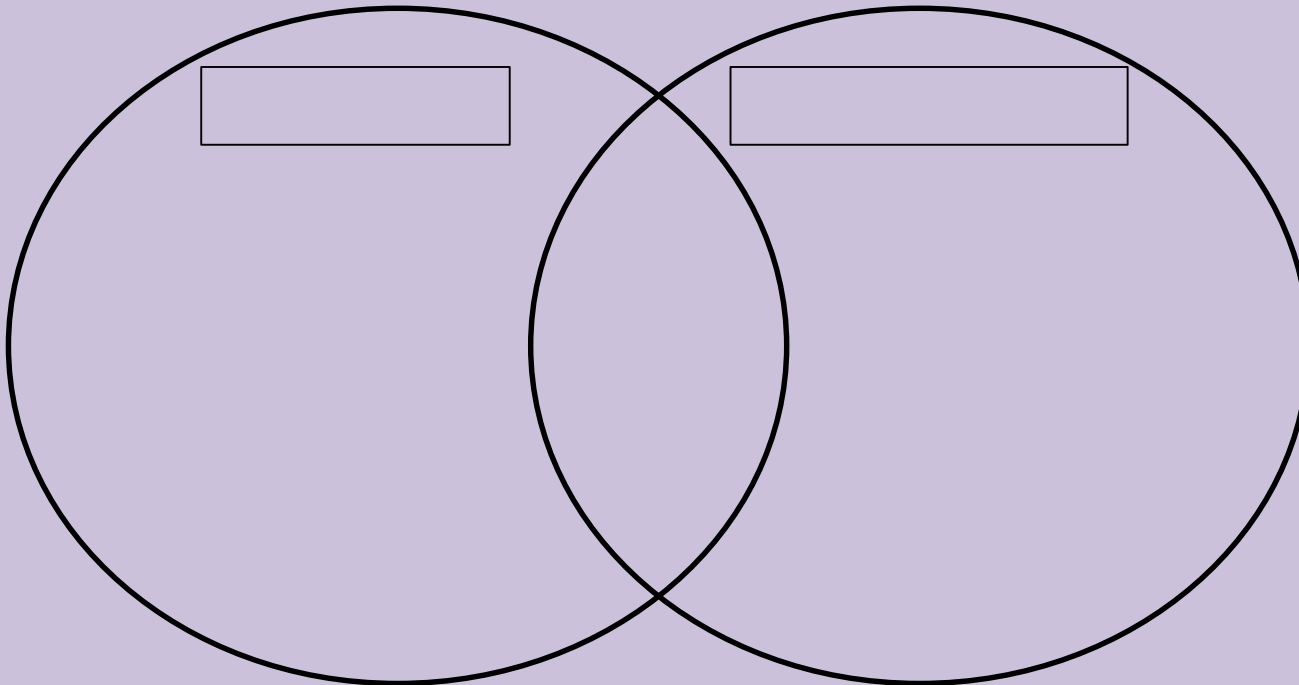
Practise

How will you sort these shapes?



Practise

How will you sort these shapes?



Sorting objects

We can see shapes in many everyday objects.
What 2D shapes are these signs?



circle



square







triangle



octagon

Sorting objects

Let's now sort them into this table.

| Has less than 4 sides | Has more than 3 sides |
|--|--|
|   |   |

Practise

Sort these 3D objects into the table below.

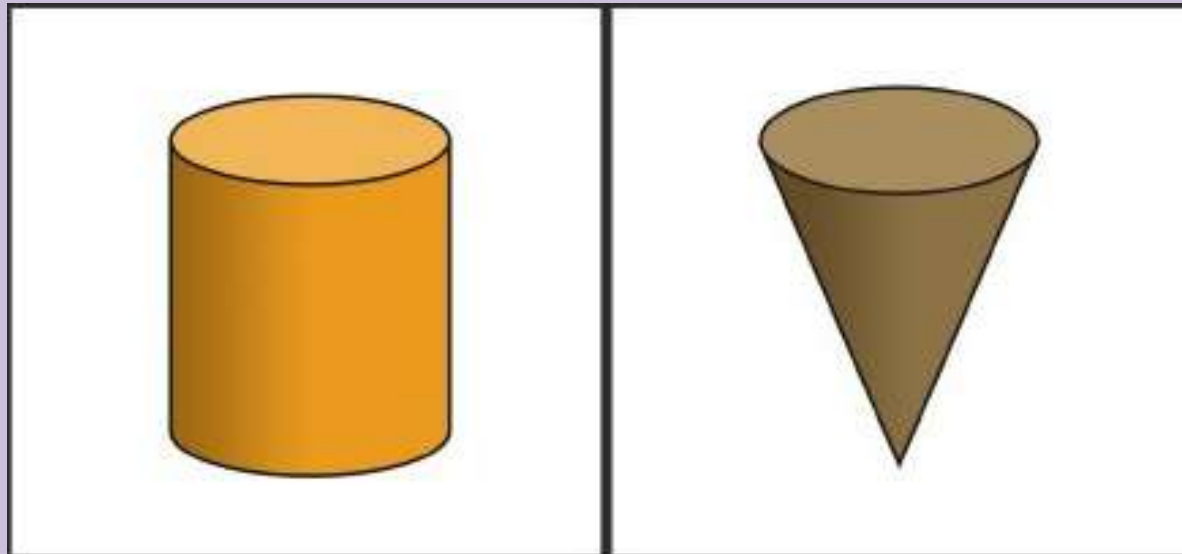
| Has less than 4 edges | Has more than 4 edges |
|-----------------------|-----------------------|
| | |



Comparing shapes

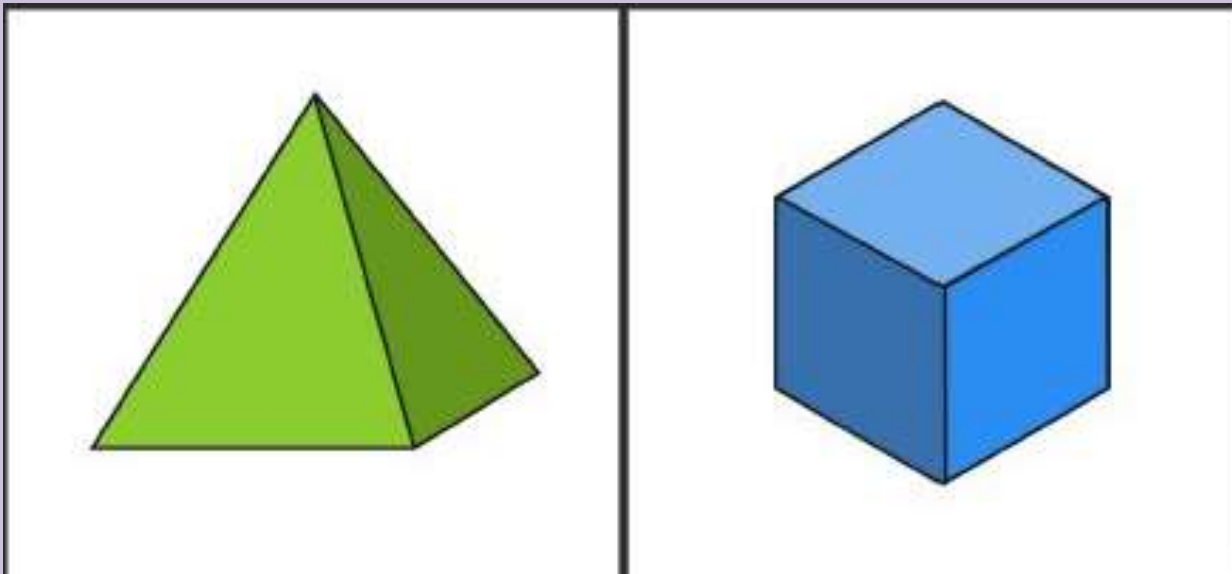
We can also **compare** shapes by saying what is **similar** and **different** about them.

When comparing a cone and a cylinder, the **similarities** are they both have a curved face and a circular face. They are **different** because the cylinder does not have a vertex.



Practise

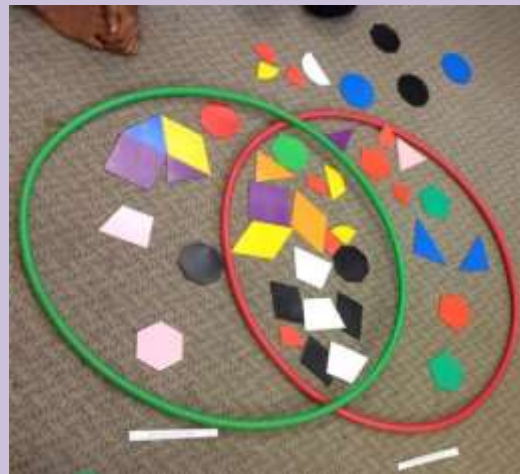
What is **similar** and what is **different** between these two shapes?



Practise



Give children the opportunity to sort 2D and 3D shapes (or shape objects) in tables and diagrams, selecting their own criteria.





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

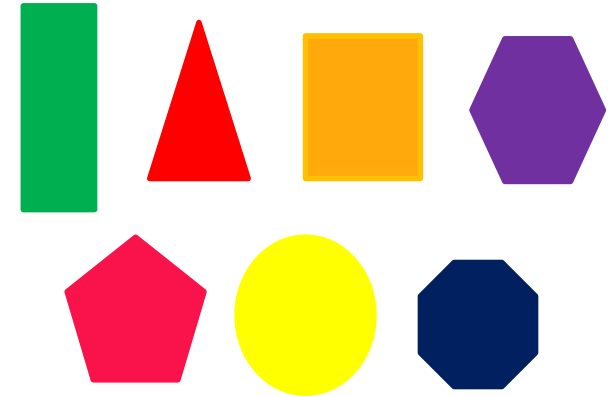
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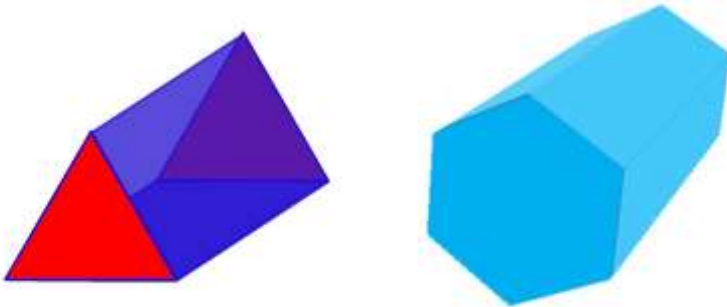
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Sort these shapes into a Venn Diagram, selecting your own criteria.



Tell me something that is similar and something that is different about these two shapes.



I have made two houses using four 3D shapes. Are they same? Explain your answer.



Do the roofs share any of the same properties?