


Intro to Symmetry

What is symmetry?

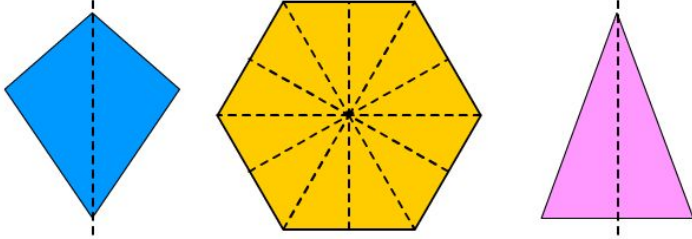
Symmetry is when an object looks the exact same on one side as the other. To see if an object is **symmetrical**, you draw a line of **symmetry** or a line dividing an object to show a perfect match on each side. It's like making a mirror image.

symmetry

Symmetry is having one side that exactly mirrors the other.



A line of symmetry divides a symmetrical shape in half.



An object may have more than one line of symmetry.

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x ✓ ✓ x ✓

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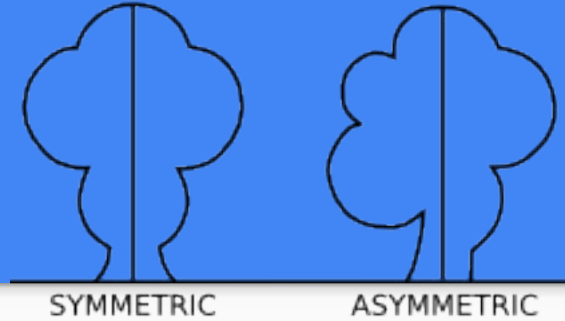
Lesson 1:

Watch this video all about symmetry and see if you can answer the following questions.

<https://www.youtube.com/watch?v=YFzktJNmnPU>

1. What do we call a shape that has no lines of symmetry?
2. Can a shape have more than 1 line of symmetry?
3. Can you name a 2D shape that has more than 1 line of symmetry?
4. Make a list of 10 objects in your house that are symmetrical?
5. Draw a picture of one of these objects and include 1 line of symmetry.

What have we learned?



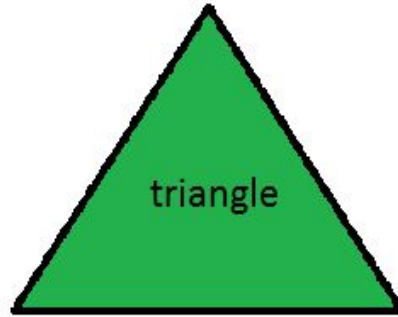
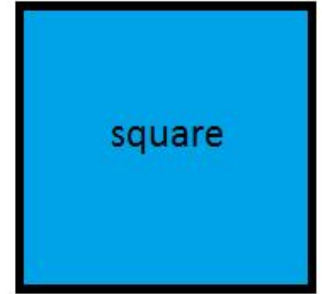
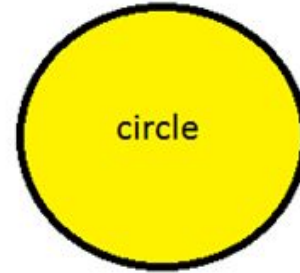
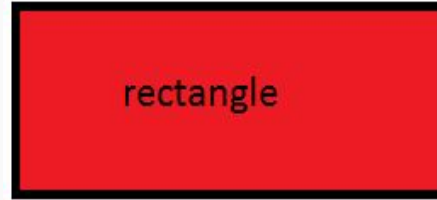
1. A shape that has **at least 1** line of symmetry is **symmetrical**.
2. A shape that has **no** lines of symmetry is **Asymmetrical**
3. A shape can have more than one line of symmetry.
4. An example of a 2D shape that has more than 1 line of symmetry is a square/ rectangle/ circle / equilateral triangle/ pentagon/ hexagon/ oval and many more.
5. Examples of Symmetry are all around us.
6. A line of symmetry always goes through the center point of a shape.

Lesson 2

Draw each of these 2D shapes using a ruler (except for the circle) and show where the line (or lines) of symmetry is.

***Top Tip ***

To see if you are correct, cut out the shape, fold the shape along the line of symmetry and see if they match on both sides.



Answer these questions based on your drawings.

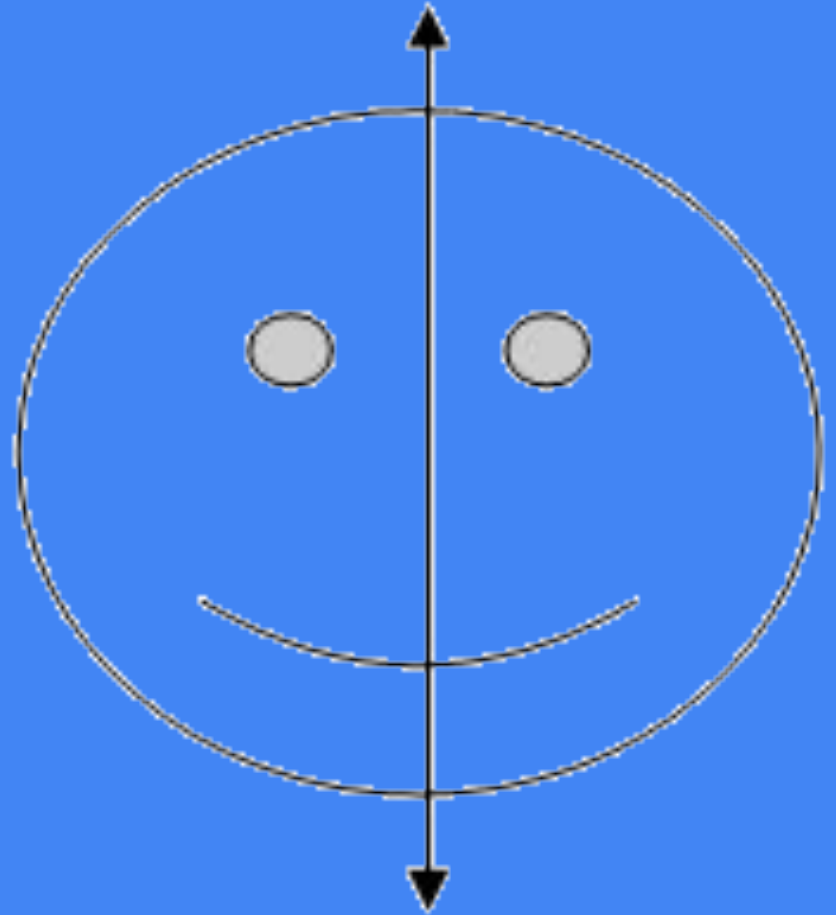
1. Were all the shapes Symmetrical or Asymmetrical?
2. How many lines of symmetry does a rectangle have?
3. Which shape has the most lines of symmetry?



Lesson 3

Go to page 137 of Planet Maths
and work on activity A,B and C.

Remember to always read the
questions carefully.



Lesson 4

Draw and colour your own symmetrical picture. Start by drawing a vertical or horizontal line through the center of your page.

