

LO: I can classify and sort different types of triangles.

The accompanying PowerPoint for this lesson is available through MS Teams in 'files' and 'Class Materials'

Parent Notes: Children will classify triangles for the first time using the names 'isosceles', 'scalene' and 'equilateral'. Children will use rulers to measure the sides in order to classify them correctly. Children will compare the properties, similarities and differences between triangles and use these to help them identify, sort and draw.

Mathematical Talk:

What is a polygon? What isn't a polygon? A reminder here -

<https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/z98n4qt>

What are the names of the different types of triangle?

What are the properties of an isosceles triangle?

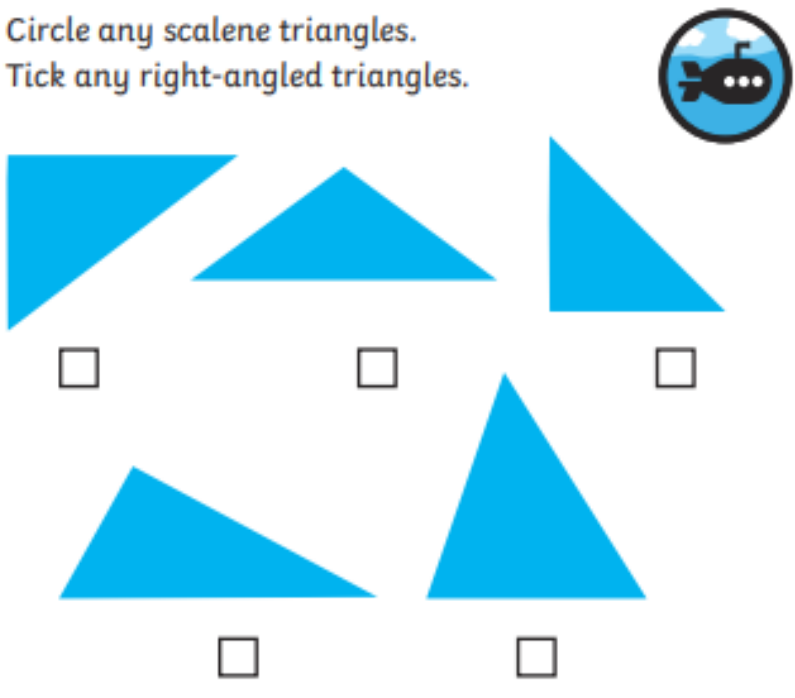
What are the properties of a scalene triangle?

What are the properties of an equilateral triangle?

Which types of triangle can also be right-angled? How are the triangles different? Do any of the sides need to be the same length?

Questions:

1) Circle any scalene triangles.
Tick any right-angled triangles.



2) Name the type of triangle you have not circled or ticked.

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- 1) What are the differences between these two triangles?

What is similar about them?



- 2) Tick the statements that are true:

- A scalene triangle never has equal length sides.
- An isosceles triangle can never have a right angle.
- An isosceles triangle has three equal angles.
- An equilateral triangle has three equal length sides.

Choose one of your true statements and prove it!

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- 1) Here is a 4cm line:



Copy it into your book using a pencil and ruler. Add two more sides to create an isosceles triangle. What are the lengths of the two new sides?

Without drawing two new sides, write the lengths of the two new sides needed to make an equilateral triangle.

- 2) Investigate:
How many different isosceles triangles can you make where the lengths of the sides are whole numbers (not decimals) that total 12cm? Draw or make your triangles to prove it.
- 3) The longest side of a triangle must be less than the other two sides added together. Investigate if this is always true.

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