Circle any scalene triangles. Tick any right-angled triangles. $\overline{\mathsf{V}}$ \checkmark Name the type of triangle you have not circled or ticked. isosceles What are the differences between these two triangles? One has a right angle; one has one side that is longer than the others; one has one side that is shorter than the others. What is similar about them? Both are isosceles triangles. 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! Multiple answers possible. 1) Here is a 4cm line: Use a pencil and a ruler to draw two more sides that would create an isosceles triangle. What are the lengths of your two new sides? Multiple answers possible. Ensure that children's triangles have two equal sides and angles to within a reasonable degree of accuracy. Without drawing two new sides, write the lengths of the two new sides needed to make an equilateral triangle. 4cm and 4cm 2) Investigate: How many different isosceles triangles can you make where the lengths of the sides are whole numbers (not

3) The longest side of a triangle must be less than the other two sides added together. Investigate if this is always true.

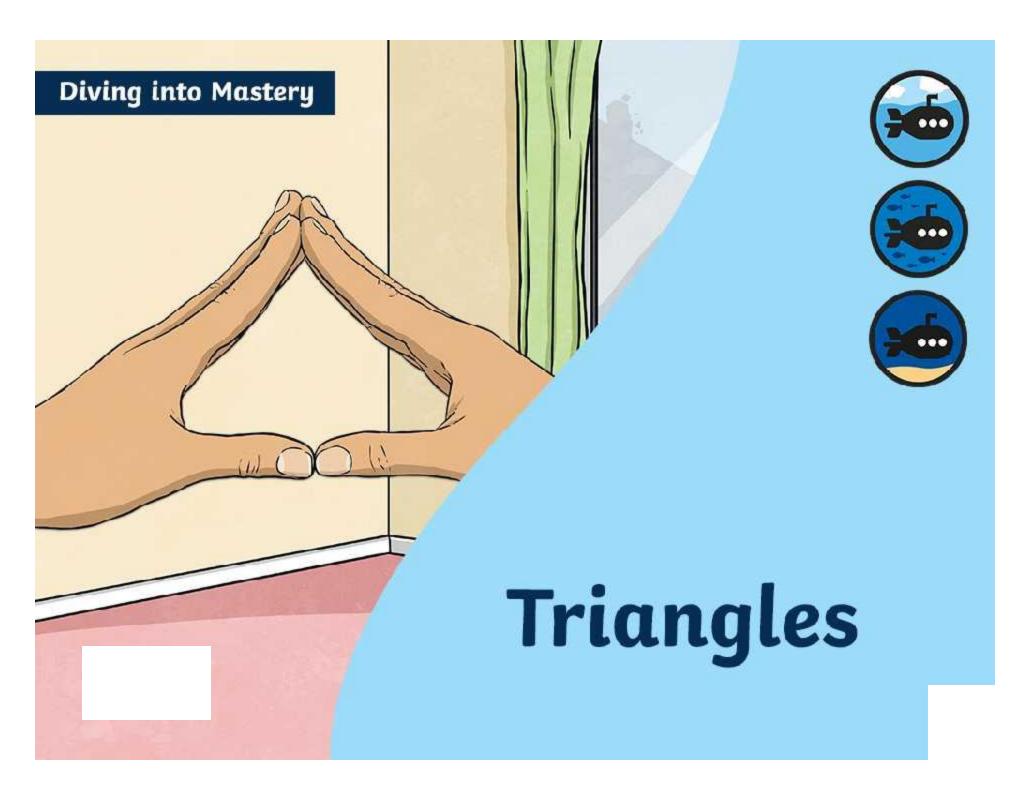
decimals) that total 12cm? Draw or make your triangles to prove it.

Only one triangle can be made, with one 2cm side and two equal sides of 5cm.

True, the longest side of a triangle is always shorter than the other two sides added together.

1)	Circle any scalene triangles. Tick any right-angled triangles.		
2)	Name the type of triangle you have not circled or ticked	d.	
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	2.	
	An isosceles triangle has three equal angles.		
	An equilateral triangle has three equal length side	es.	
	Choose one of your true statements and prove it!		

1)	Here is a 4cm line:
	Use a pencil and a ruler to draw two more sides that would create an isosceles triangle. What are the lengths of the two new sides? cm Without drawing two new sides, write the lengths of the two new sides needed to make an equilateral triangle.
	cm cm
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.



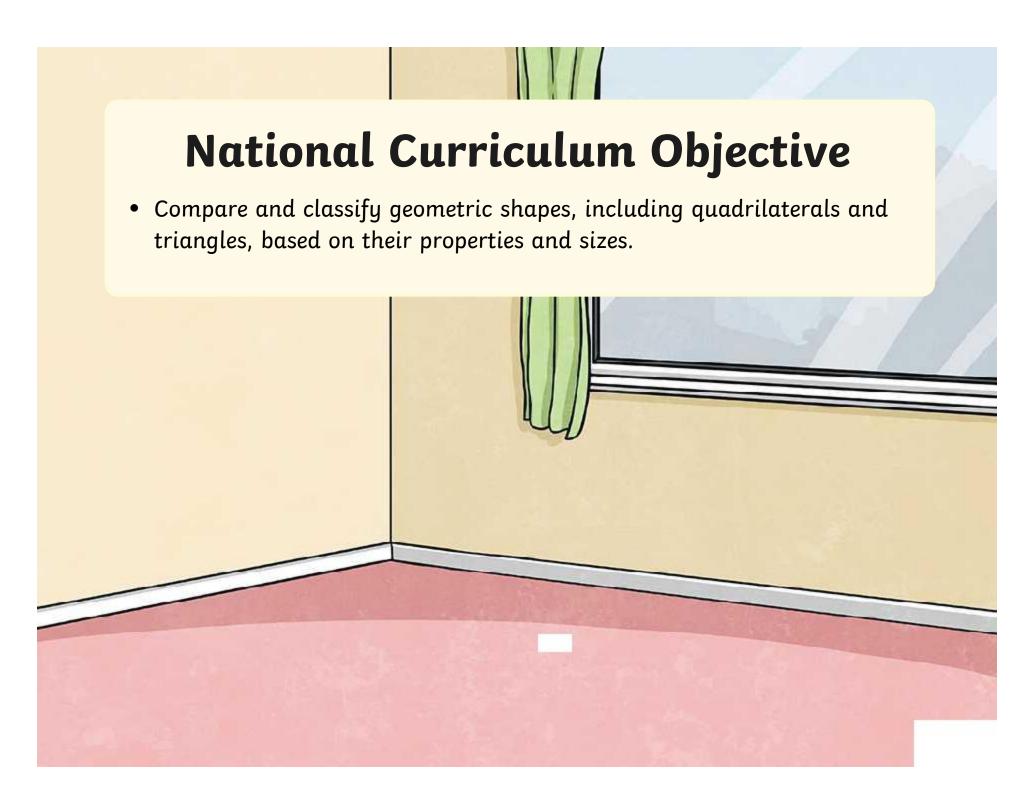
Diving into Mastery Guidance for Educators

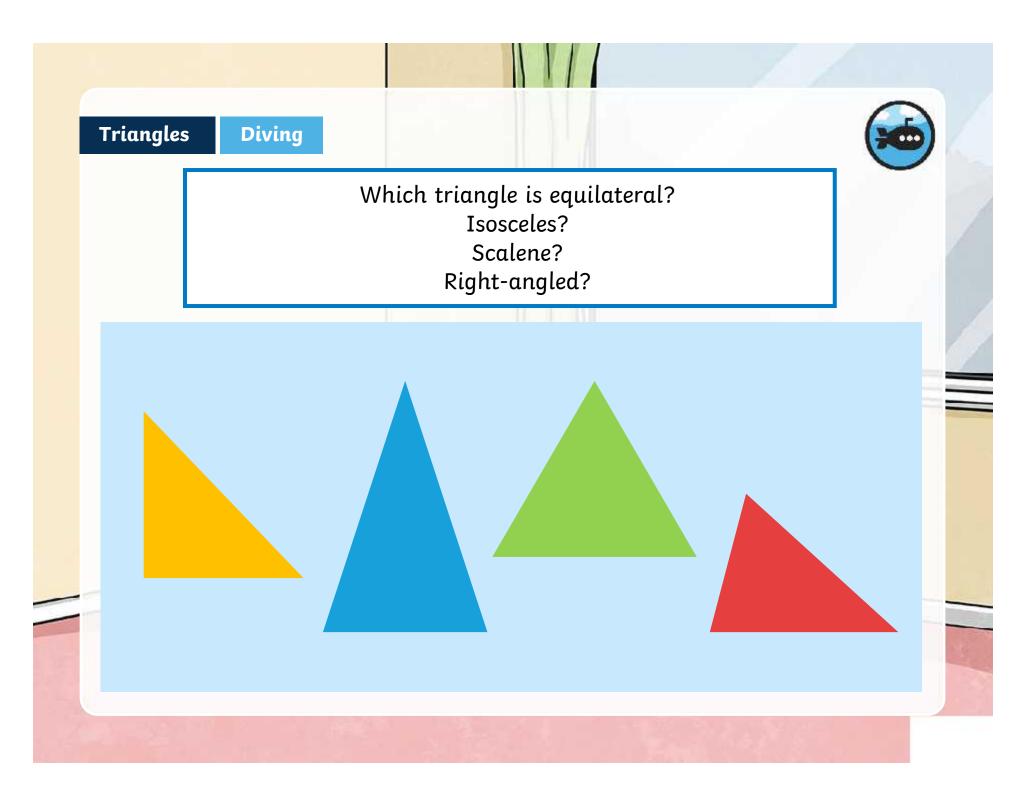
Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

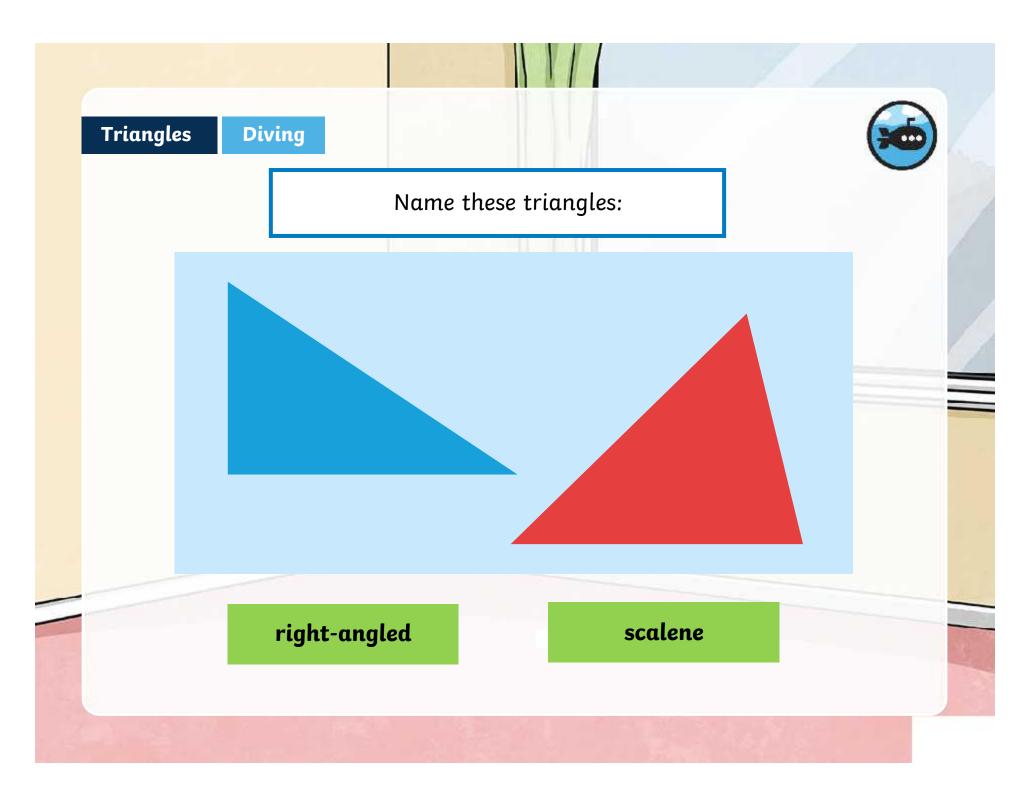


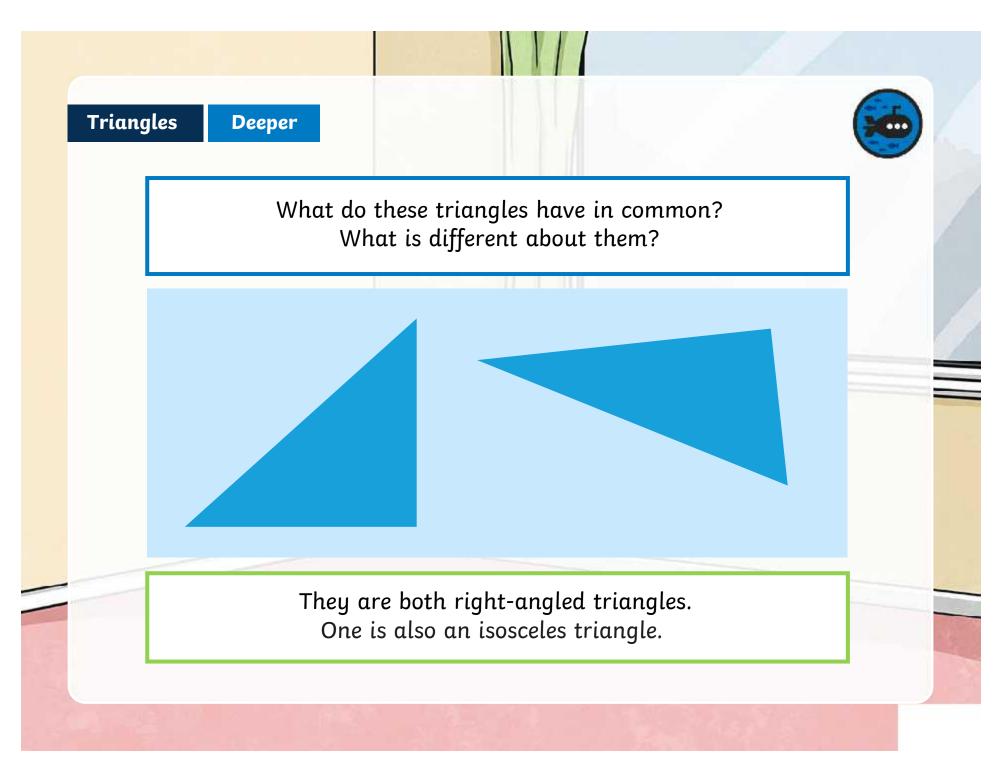
These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

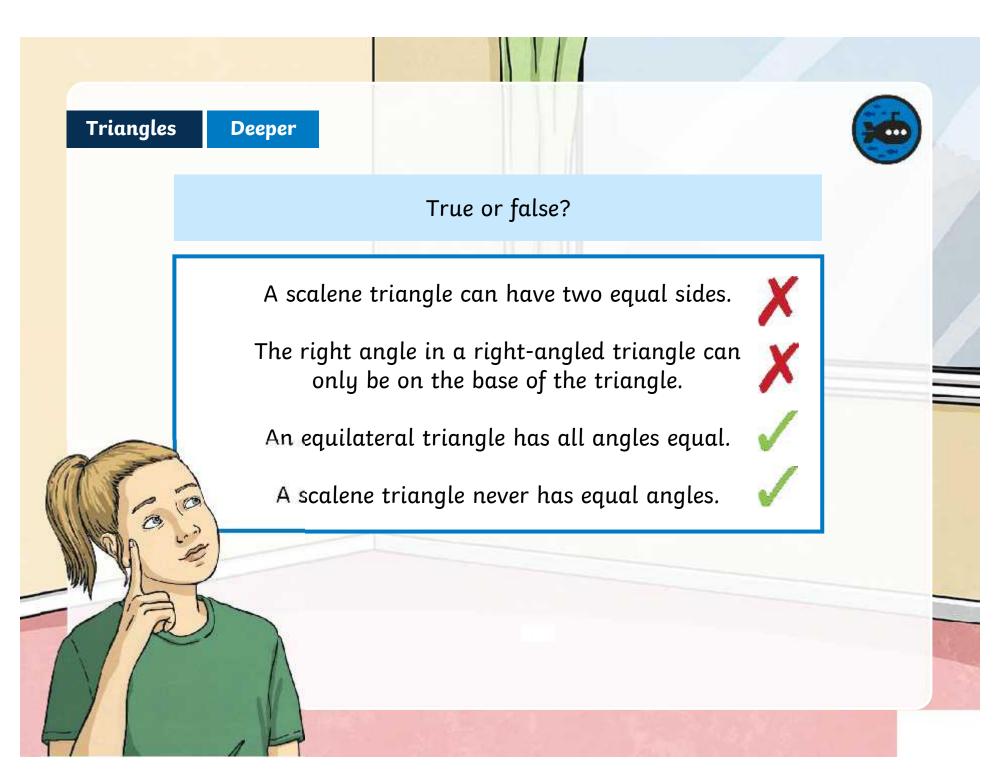
These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.











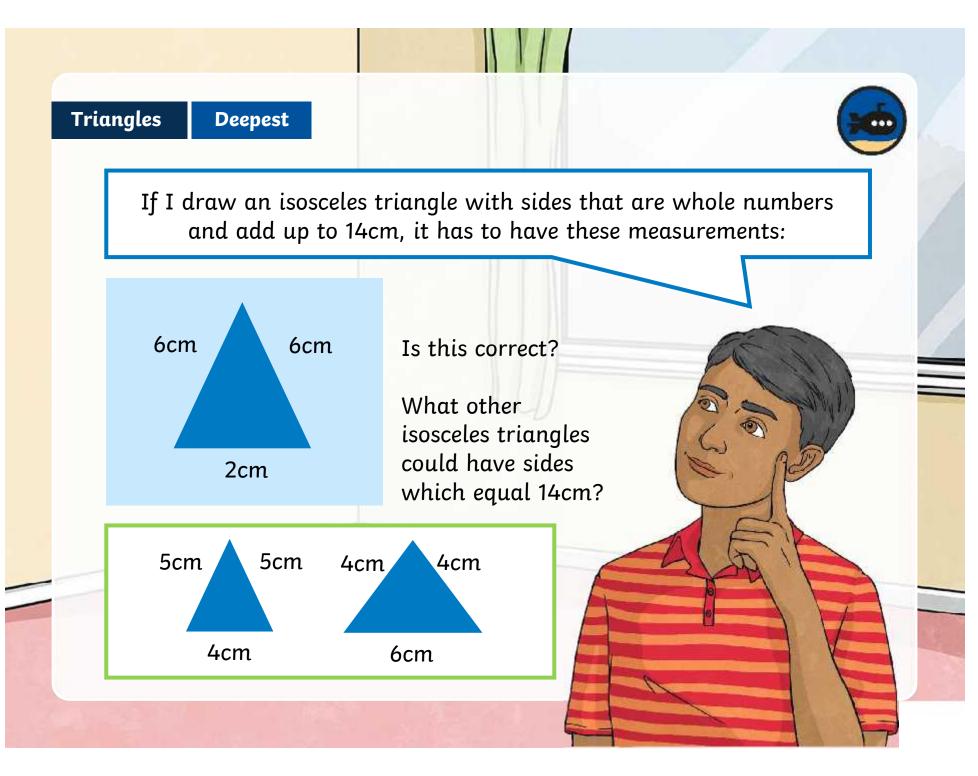


How could I draw two more sides to make a scalene triangle?



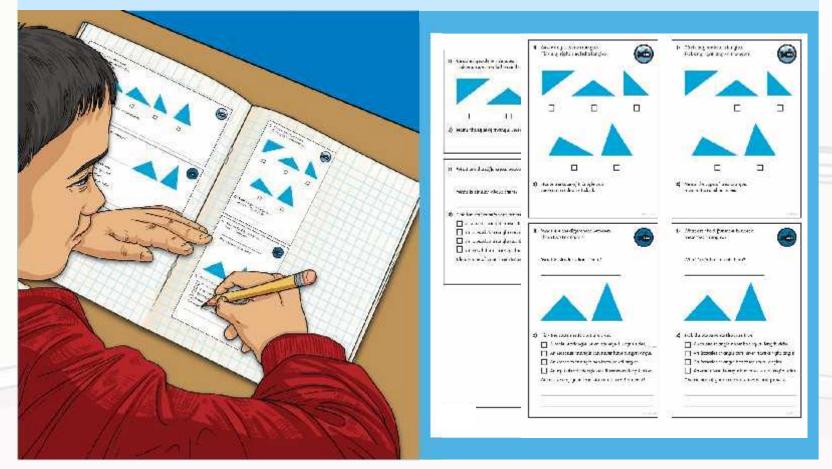
If this line was 6cm long and I used it as one of my equal length sides in an isosceles triangle, can you work out the length of one other side? How?

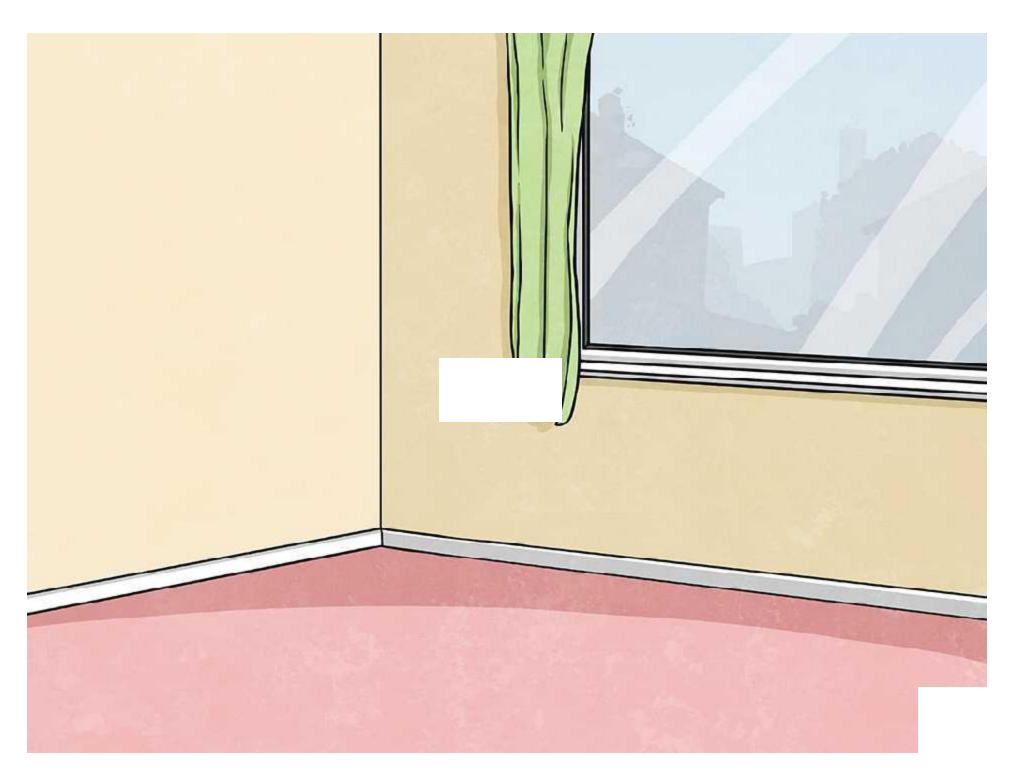
6cm! Isosceles triangles have two equal length sides.

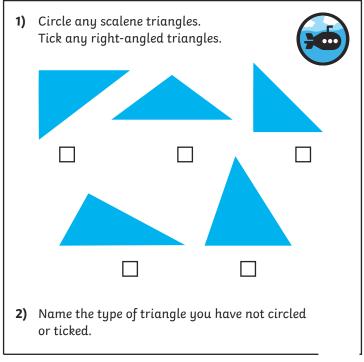


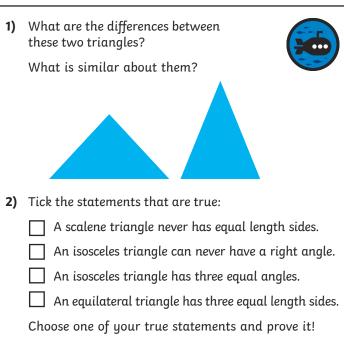
Triangles

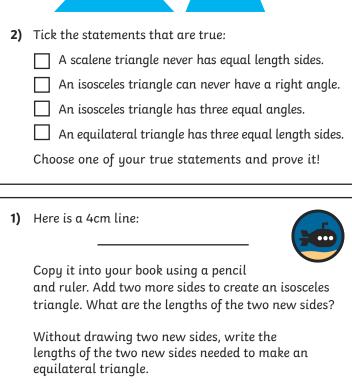
Dive in by completing your own activity!











How many different isosceles triangles can

you make where the lengths of the sides are

Draw or make your triangles to prove it.

than the other two sides added together.

3) The longest side of a triangle must be less

Investigate if this is always true.

whole numbers (not decimals) that total 12cm?

2) Investigate:

Tick any right-angled triangles. 2) Name the type of triangle you have not circled or ticked. 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! 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.

Circle any scalene triangles.

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