



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

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



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

What is similar about them?

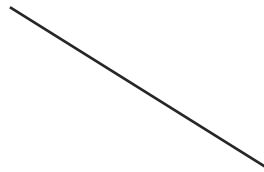


- 2) Tick the statements that are true:

- ☐ 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!

- 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 _____ 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.