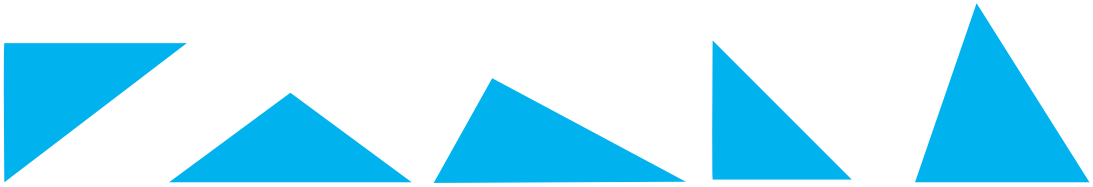
1) Circle any scalene triangles.
Tick any right-angled triangles.



☐ ☐ ☐ ☐ ☐

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?

_____

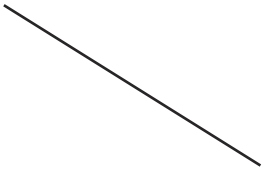
2) Tick the statements that are true:

- ☐ 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.