# Triangles

## Let's investigate

Surita has made a triangle using a length of string.

My triangle is equilateral. I measured one side. It is 4 cm long.

How long is her piece of string?

George has made a triangle using a different length of string.

My triangle is isosceles. I measured two sides. One is 4 cm and one is 5 cm.

How long could his piece of string be?

There is more than one answer.

**1** The noticeboard on the opposite page has been divided into 12 sections labeled A to L.

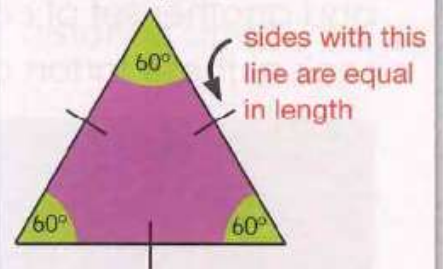Each section contains a set of three pins. Imagine joining these pins using three straight lines.

Which sets of pins will make:

- an equilateral triangle?
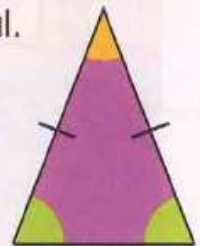- a scalene triangle?
- an isosceles triangle?
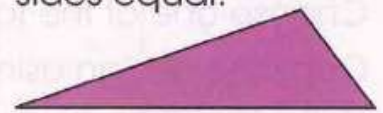
Do any sets of pins **not** make a triangle?
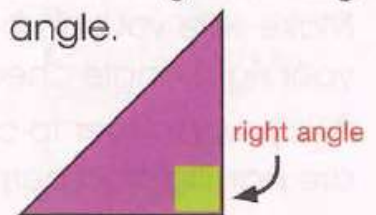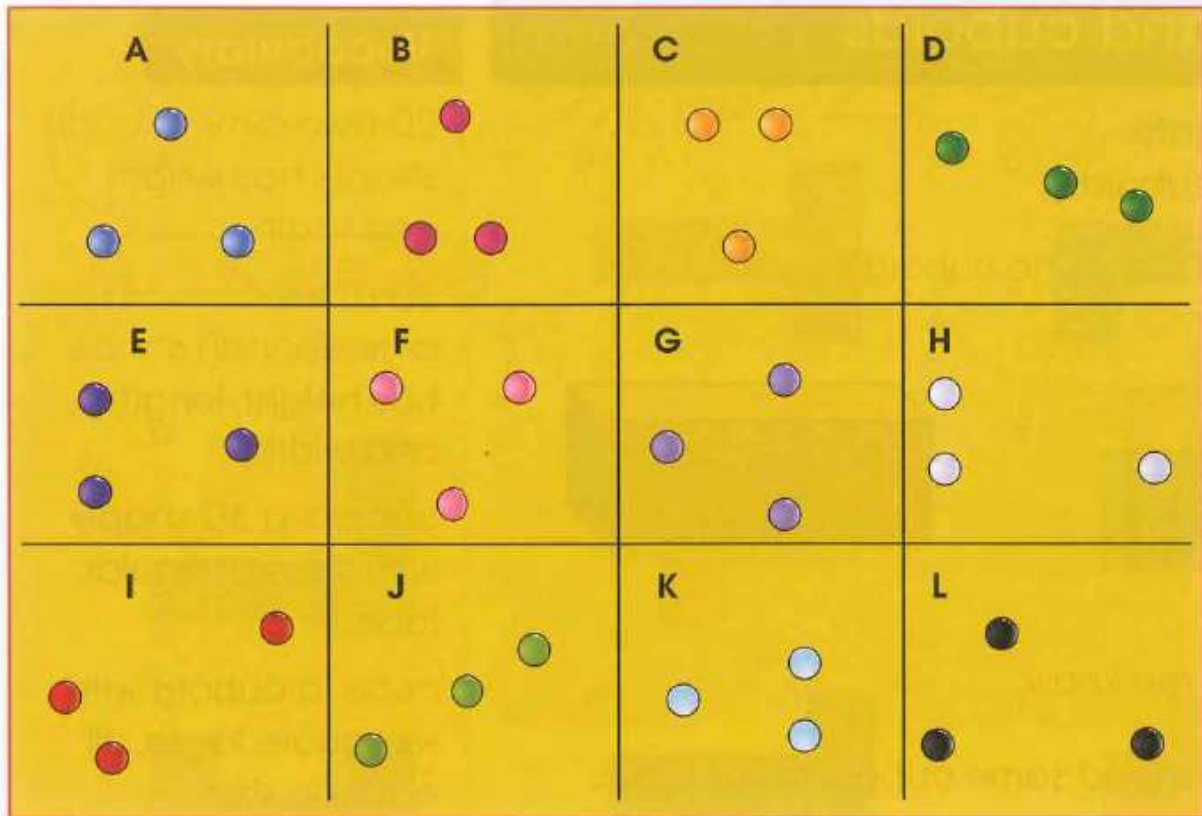
Which of the following correctly describes the triangles? Select all that apply.



☐ Both triangles have a right angle.

☐ Only one triangle is a right triangle.

☐ Only one triangle has an acute angle.

☐ Both triangles have an obtuse angle.

☐ Both triangles have at least two acute angles.