

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.

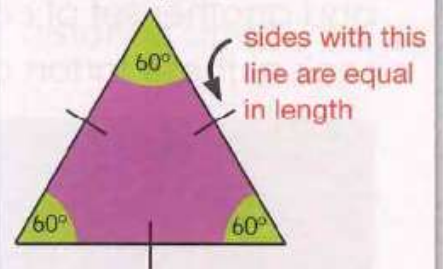
Which sets of pins will make:

- an equilateral triangle?
- a scalene triangle?
- an isosceles triangle?

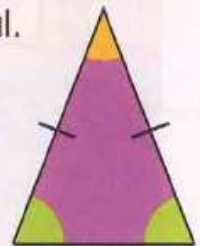
Do any sets of pins **not** make a triangle?

Vocabulary

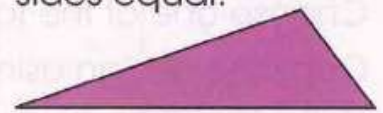
equilateral triangle: a triangle with all angles equal and all sides equal.



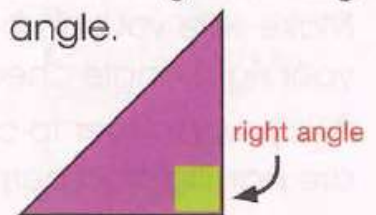
isosceles triangle: a triangle with two angles equal and two sides equal.

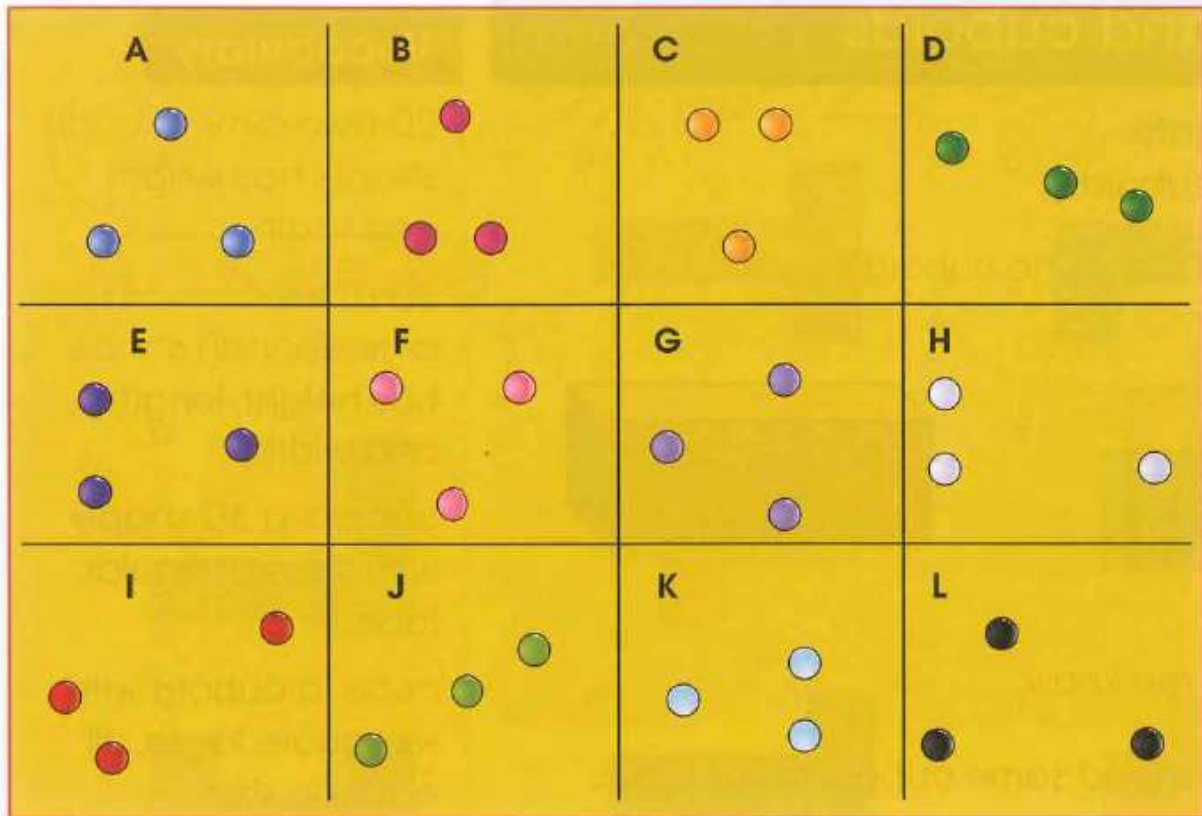


scalene triangle: a triangle with no angles equal and no sides equal.



right-angled triangle: a triangle where one of the angles is a right angle.





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.