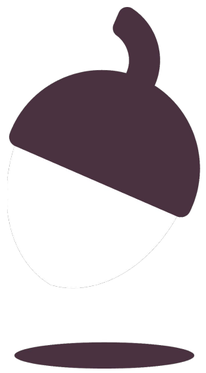
Mathematics

Constructions, congruence, and loci

Congruence and triangles 2

Independent Task

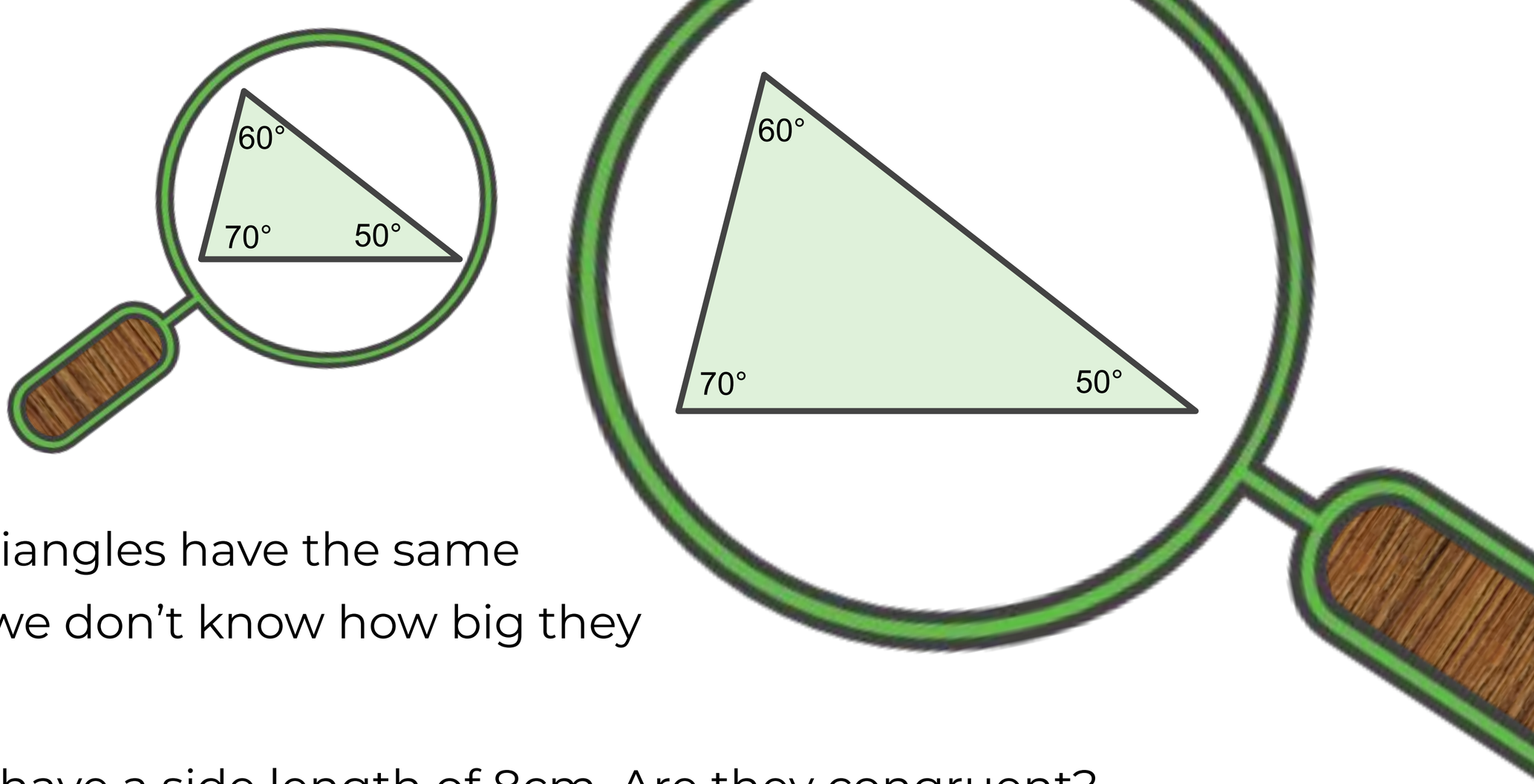
Downloadable Resource



OAK NATIONAL ACADEMY

Ms Jones

Try this



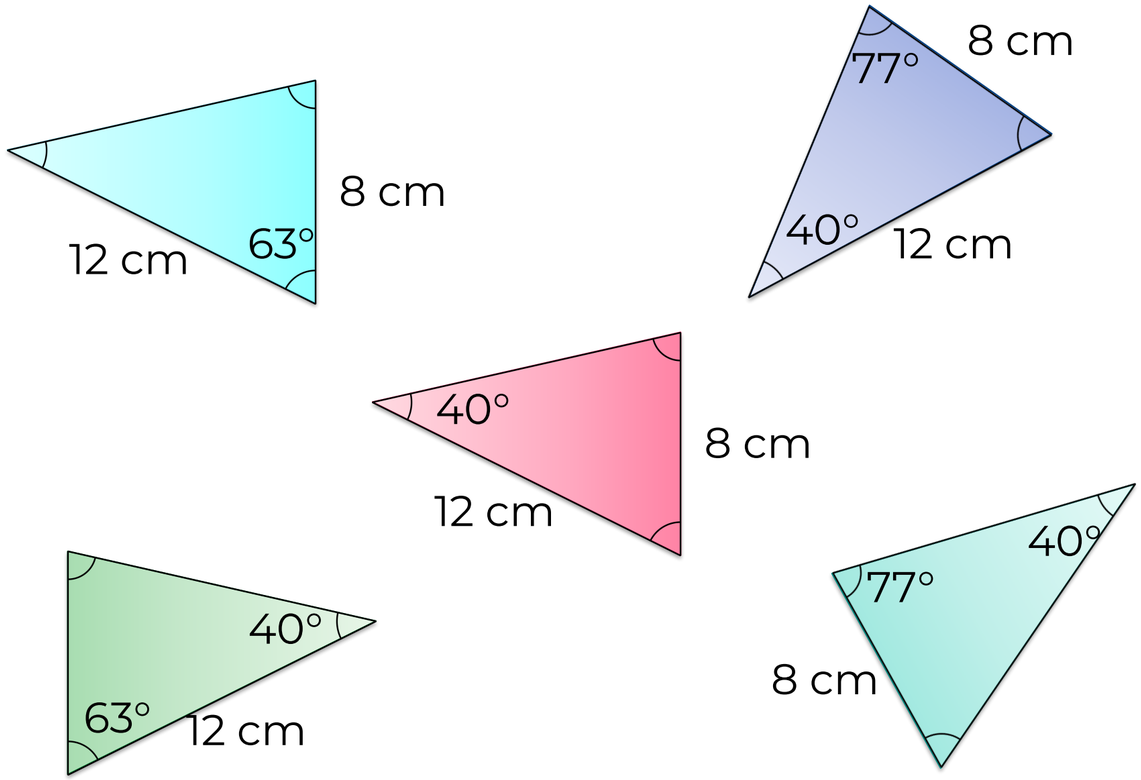
These two triangles have the same angles, but we don't know how big they are...

If they each have a side length of 8cm. Are they congruent?

Construct an example and non-example...

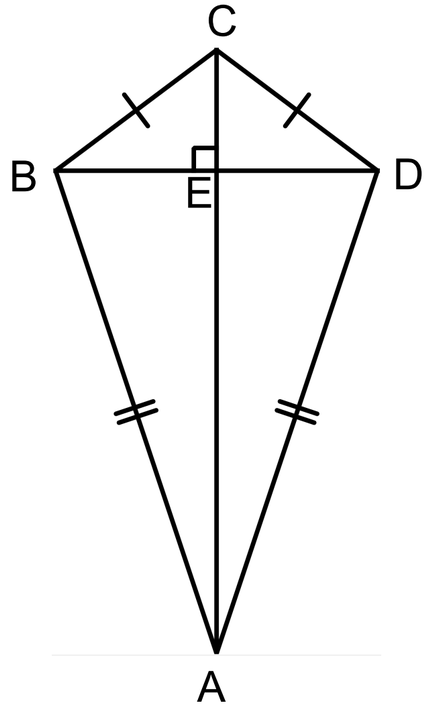
Independent task

1. Identify which of the following triangles are congruent:



2. ABCD is a kite.
The lines AC and BD meet at E. Angle AEB = 90°.
AB = AD and CB = CD.

Identify and write down three pairs of congruent triangles.



Explore

How many different triangles can you draw with these features:

1. An angle of 30°, a side of 5cm and a side of 3cm
2. An angle of 30°, a side of 5cm and a side of 2cm
3. An angle of 30°, a side of 5cm and a side of 7cm

Try some other lengths, what do you notice?