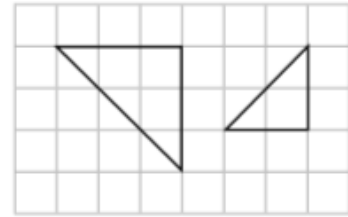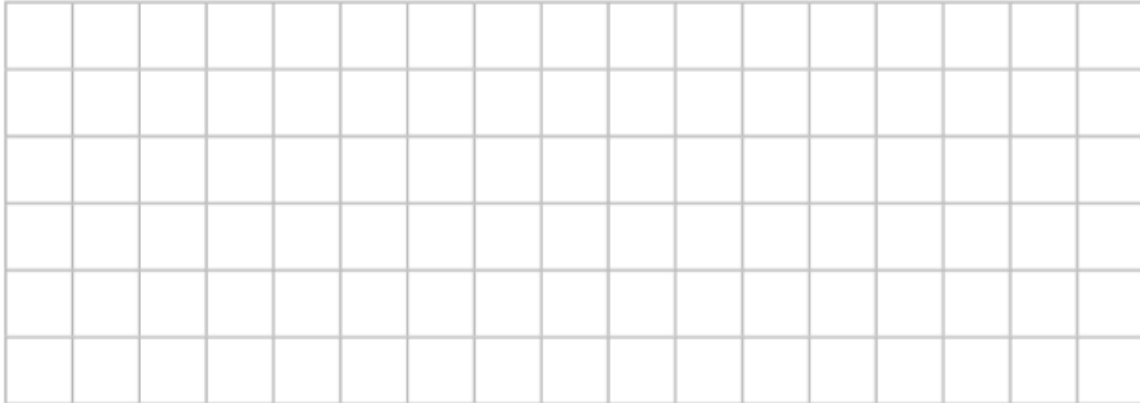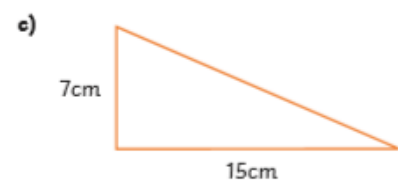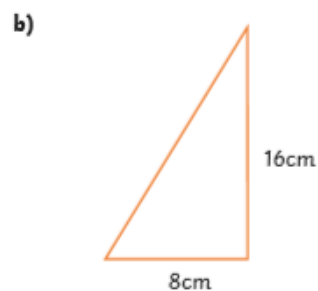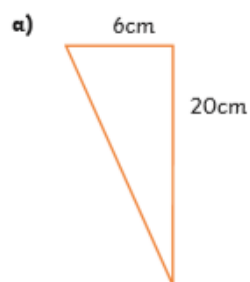Sadie is drawing right-angled triangles.

I've noticed that the area of some of my triangles is equal to the length of the two shortest sides when they are added together.

Investigate which right-angled triangles Sadie could have drawn.

This rectilinear shape has an area of 256cm². It has been split equally into four right-angled triangles.

a)

6cm

20cm

b)

16cm

8cm

c)

7cm

15cm

Which of these triangles has come from the rectangle above?

_____

_____

Investigate finding other possible measurements one of the triangles taken from the rectangle could have had. Use only whole-number length and height measurements.

_____

_____

I'm thinking of a right-angled triangle with integer side lengths.

It has an area of 24 cm².
Its base measures between 3cm and 8 cm.
Its height measures between 10cm and 25cm.

Give the dimensions of all the possible triangles I could be thinking of.

_____

_____

_____

_____