## Construct triangles using SSS

(1)

Use a ruler and a pair of compasses to construct a triangle with side lengths of $7 \mathrm{~cm}, 6 \mathrm{~cm}$ and 4 cm .


Discuss your method with a partner.
Which side did you draw first?


Eva sketches an isosceles triangle.
a) Make an accurate construction of the triangle.

b) Use the accurate construction to work out the area of the triangle. Show the steps in your working.

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12 \mathrm{~cm}^{2}
$$

Show that a triangle with sides of $3 \mathrm{~cm}, 4 \mathrm{~cm}$ and 5 cm is right-angled.


a) Using a ruler and a pair of compasses, show that Jack is correct.
$\square$
What is the size of the largest angle in a triangle with sides that measure $8 \mathrm{~cm}, 5.9 \mathrm{~cm}$ and 2.4 cm ?

Construct a triangle that has a perimeter of 15 cm .


Compare answers with a partner.
How many different triangles can you find?

