## Construct triangles using SSS, SAS and ASA

(1)

Make accurate drawings of the triangles.
a)


b)


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

Make accurate drawings of the triangles.
a)

b)

By drawing the triangle accurately, find the length of the side marked $a$.



Discuss your method with a partner.Which triangle has the greater perimeter? Tick your answer. Show all your workings.

$\square$
Describe three different ways to construct an equilateral triangle with a perimeter of 180 mm .

## Method 1

SSS - three side length of 60 mm ( 6 cm )
$\qquad$
$\qquad$

## Method 2

SAS - 6 cm side, $60^{\circ}$ angle and 6 cm side
$\qquad$

## Method 3


$\qquad$

There is only one triangle
that has side lengths 6 cm ,
7.5 cm and 9 cm .


Dexter
There is only one triangle that has angles $70^{\circ}, 80^{\circ}, 30^{\circ}$.

Rosie

Are Dexter and Rosie both correct? Discuss with a partner.

