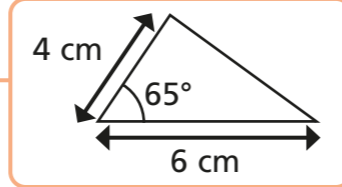


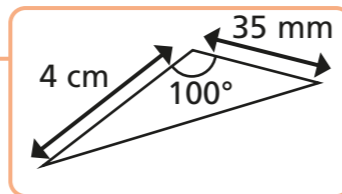
# Construct triangles using SSS, SAS and ASA

1 Make accurate drawings of the triangles.

a)



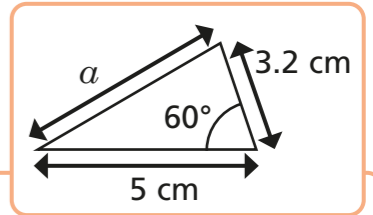
b)



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



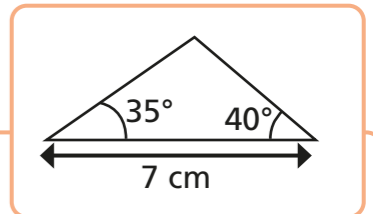
2 By drawing the triangle accurately, find the length of the side marked  $a$ .



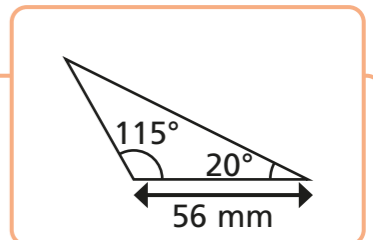
$a =$    $\text{cm}$

3 Make accurate drawings of the triangles.

a)



b)

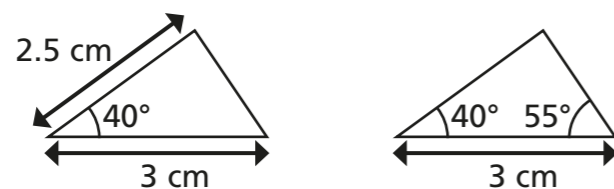


Discuss your method with a partner.



- 4 Which triangle has the greater perimeter? Tick your answer.

Show all your workings.



- 5 a) Use the information to construct triangle PQR.

angle PQR =  $70^\circ$       PQ = 8 cm      QR = 3.2 cm

- b) Measure the length of PR.

Give your answer to 1 decimal place.

 cm

- 6 Describe three different ways to construct an equilateral triangle with a perimeter of 180 mm.

**Method 1**

**Method 2**

**Method 3**

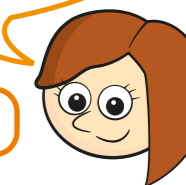
7



Dexter

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

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.

