

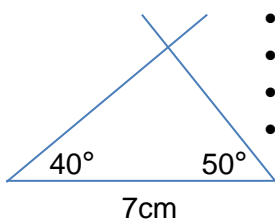


Starter:

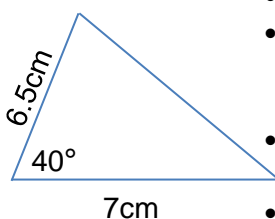
- 1) Use a ruler to draw a 7.2cm line accurately.
- 2) Draw an angle of 35° using a protractor.
- 3) Use a compass to draw a circle with a radius of 6cm.

Top Tips!

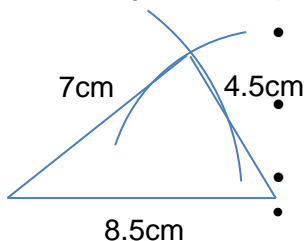
Constructing Triangles



- Draw the base
- Draw first angle
- Draw second angle
- Extend lines until they cross



- Draw the base
- Draw the angle and measure the side accurately
- Join the lines to finish



- Draw the base
- Open compass to first side length
- Place compass at the end of the base
- Draw an arc
- Repeat for the other side

Constructing angles

Construct a **60° angle** by constructing the beginning of an equilateral triangle.

- Draw a base line.
- Open compass to length of base.
- Draw an arc by placing the compass at one end of the line.
- Do the same from the other end of the line, make sure the arcs cross.
- Join the point where the arcs cross to the end of the line.

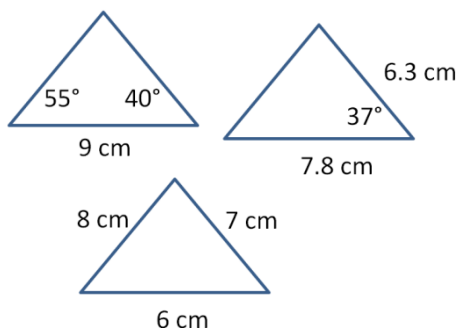
A **30° angle** is half a 60° angle – Bisect a 60° angle.

Construct a **90° angle** by constructing a perpendicular bisector (the lines cross at 90°)

Construct a **45° angle** by bisecting a 90° angle.

Skills:

1. Draw an 8.5cm line.
2. Construct the perpendicular bisector of this line.
3. Draw a 55° angle.
4. Construct the angle bisector of this angle.
5. Draw a circle with radius 5cm.
6. Construct the following triangles accurately.

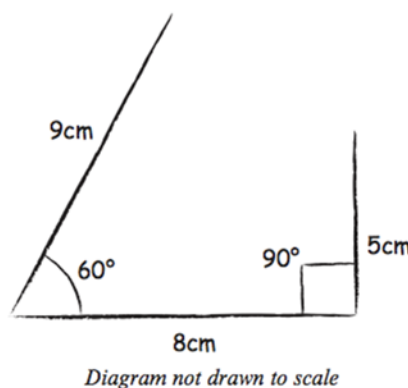


Examination Question:

2013 Summer Link Applications U1 Higher Q1

Huw has designed a new clothes hook.

He has made a rough sketch as shown below.



Use a pair of compasses and a ruler only to construct an accurate drawing of Huw's design. You must show all your construction lines.

Assessment for Learning

Video / QR code

