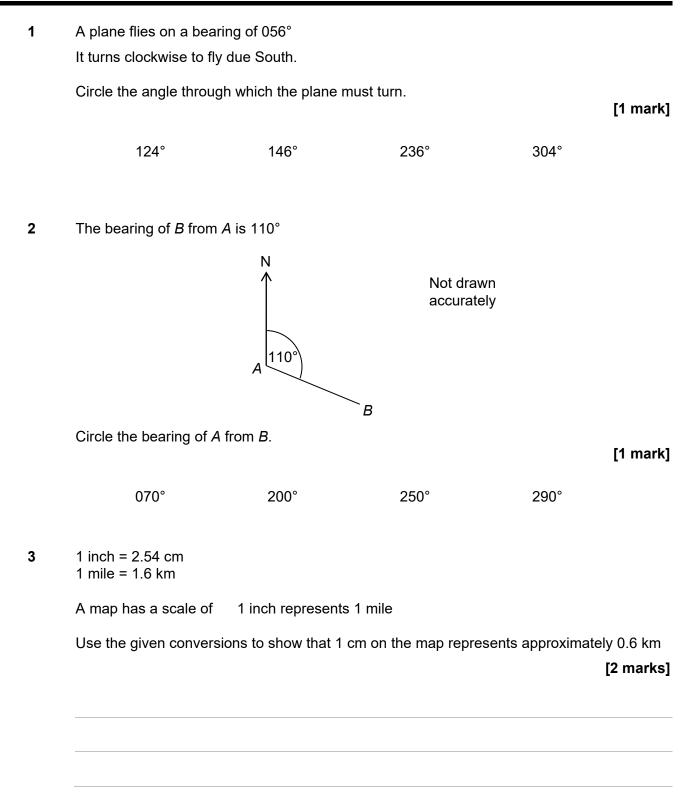


Topic Test 1 (20 minutes)

Scale diagrams and bearings - Higher



4 The diagram shows the position of a ship (*P*).



4 (a) A lighthouse (*L*) is 45 km from *P* on a bearing of 060°

Draw a scale diagram to show the position of L. Use a scale of 1 cm represents 5 km

[2 marks]

4 (b) Write down the bearing of P from L.

[1 mark]

Answer °

4 (c) The ship sails on a bearing of 120° from its original position until it is at *T*, due South of *L*.

How far is *T* from *L*? You may use a sketch. You **must not** use a scale diagram.

[3 marks]

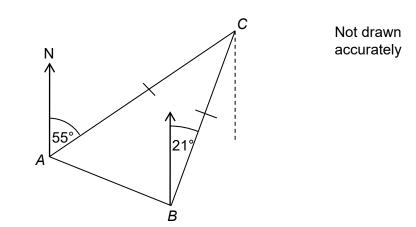


5 The diagram shows the positions of three villages *A*, *B* and *C*.

The bearing of *C* from

A is 055°
B is 021°

AC = BC

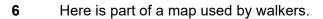


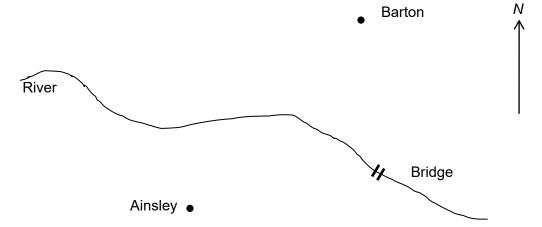
Work out the bearing of *B* from *A*.

You **must** show your working which may be on the diagram.

[4 marks]

Answer	o





Scale 1 : 150 000

To walk from Ainsley to Barton involves a climb of 600 metres.

6 (a) George usually walks 6 km each hour.

Estimate the time it takes him to walk from Ainsley to Barton. He crosses the river using the bridge.

Assume

- he walks in a straight line from Ainsley to the bridge and from the bridge to Barton
- he takes 1 minute longer for every 10 metres he climbs.

[4 marks]

AQA Education (AQA) is a registered charity (number 1073334) and a complianted by guarantee registered in England and Wales (number 3644723). Our registered address is AQA, Devas Street, Manchester M15 6EX.

Answer

hours

6 (b) Comment on how each assumption affects the accuracy of your estimate.

[2 marks]