**Construction and Loci**

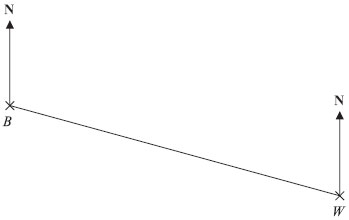
Pre-Intervention Assessment

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Question** | **Objective** | **RAG** |
| 1 | Draw and measure bearings |  |
| 2 | Draw to scale |  |
| 3 | Construct triangles accurately |  |
| 4 | Solve loci problems |  |

**1.** The diagram shows the positions of two villages, Beckhampton (*B*) and West Kennett (*W*).

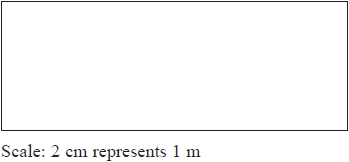
Scale: 4 cm represents 1 km.

The village, Avebury (*A*), is on a bearing of 038° from Beckhampton.

On the diagram, *A* is 6 cm from *B*.

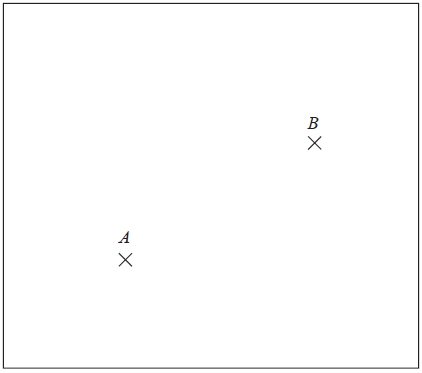
On the diagram, mark *A* with a cross (×).  
Label the cross *A*.

**2.** Here is a scale drawing of the plan of a room.



Work out the total length around the edge of the room.   
Give your answer in metres.

**3.** In the space below, use a ruler and compasses to construct an equilateral triangle with sides of length 5 cm.   
You must show all your construction lines.

**4.** The diagram shows the positions of two shops, *A* and *B*, on a map.

The scale of the map is 1 cm represents 5 km.

Yannis wants to build a warehouse.

The warehouse needs to be

less than 10 km from *A*,   
less than 20 km from *B*.

Show by shading where Yannis can build the warehouse.

[Glue here]