**Construction and Loci**

Post-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 a lighthouse and a harbour on a map.

A boat is on a bearing of

300° from the lighthouse

040° from the harbour.

On the diagram, mark with a cross (×) the position of the boat.
Label the boat *B*.

**2.** A model plane has a length of 17cm.

The scale of the model is 1:200

Work out the length of the real plane.

Give your answer in metres.

**3.** Here is a sketch of a triangle.

In the space below, make an accurate drawing of the triangle.

**4.** The diagram shows a garden in the shape of a rectangle.

The scale of the diagram is 1 cm represents 2 m.

Scale: 1 cm represents 2 m

Irfan is going to plant a tree in the garden.
The tree must be

more than 3 metres from the patio

**and**   more than 6 metres from the centre of the pond.

On the diagram, shade the region where Irfan can plant the tree.

[Glue here]