Topic Test 1 (20 minutes)

Scale diagrams and bearings - Foundation

1 A plane flies on a bearing of 056°

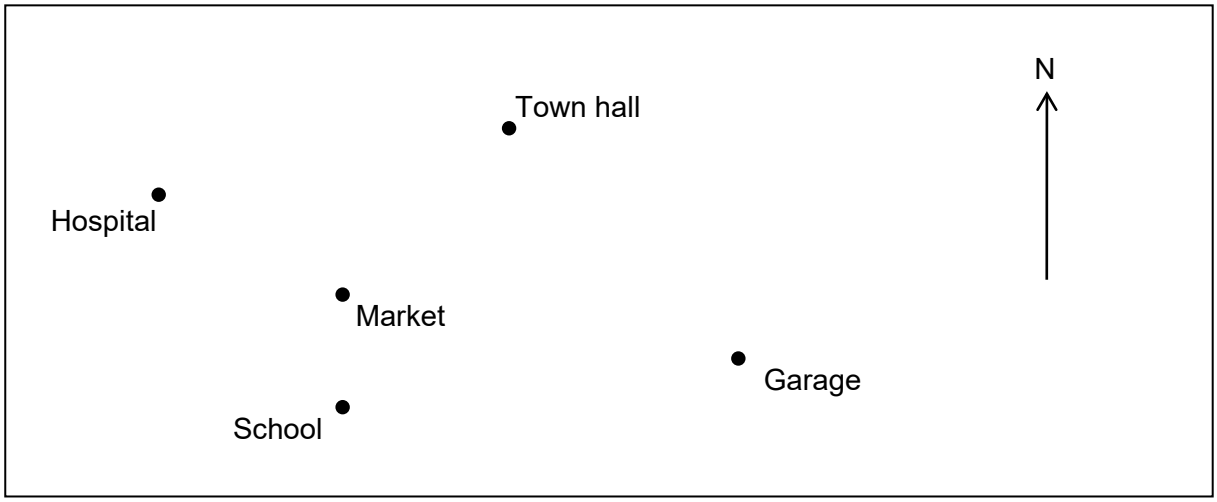
It turns clockwise to fly due South.

Circle the angle through which the plane must turn.

[1 mark]

124° 146° 236° 304°

2



2 (a) What is South-West of the Town hall?

Circle your answer.

[1 mark]

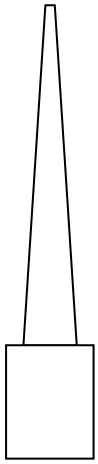
Hospital Market School Garage

2 (b) Measure the three-figure bearing of the Town hall from the Hospital.

[2 marks]

Answer _____ °

3 Here is a scale drawing of a sculpture.



The actual height of the base is 0.5 m

Work out the actual height of the sculpture, including the base.

[3 marks]

Answer _____ m

4 The diagram shows the positions of two villages, *A* and *B*.

4 (a) A straight path is on a bearing of 038° from village A.

Draw this path on the diagram.

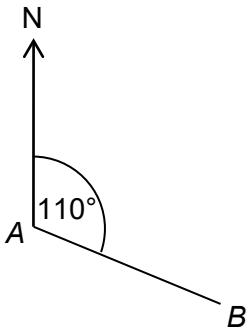
[1 mark]

4(b) A straight path from village B is on a bearing of 290°

Mark with a cross the point where the paths meet.

[2 marks]

5 The bearing of *B* from *A* is 110°



Not drawn accurately

Circle the bearing of *A* from *B*.

[1 mark]

070° 200° 250° 290°

6 1 inch = 2.54 cm
1 mile = 1.6 km

A map has a scale of 1 inch represents 1 mile

Use the given conversions to show that 1 cm on the map represents approximately 0.6 km

[2 marks]

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

7 (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.

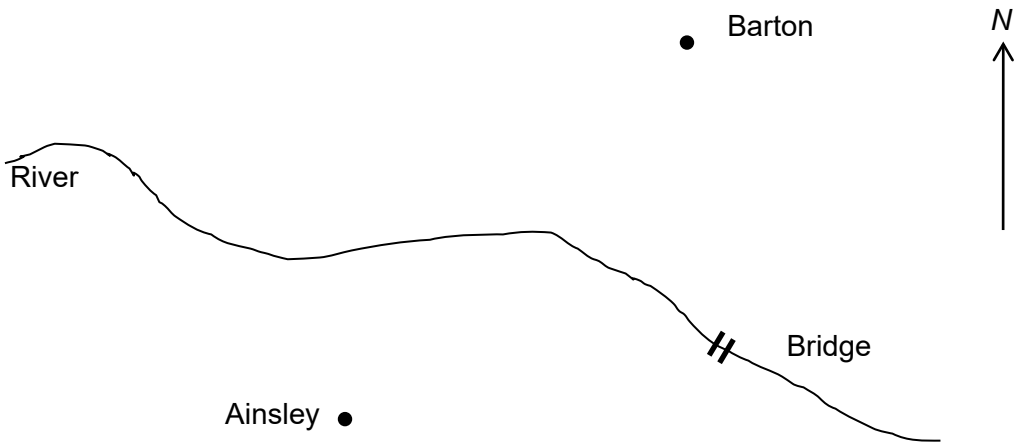
[2 marks]

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

[1 mark]

Answer _____ °

8 Here is part of a map used by walkers.



Scale 1 : 150 000

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.

[4 marks]

Answer _____ hours