1. Here is a map of an island.

N

Diagram accurately drawn

Backley ✕ 30°

5.5cm

N

Cremford ✕

Scale: 1 cm represents 0.5 km
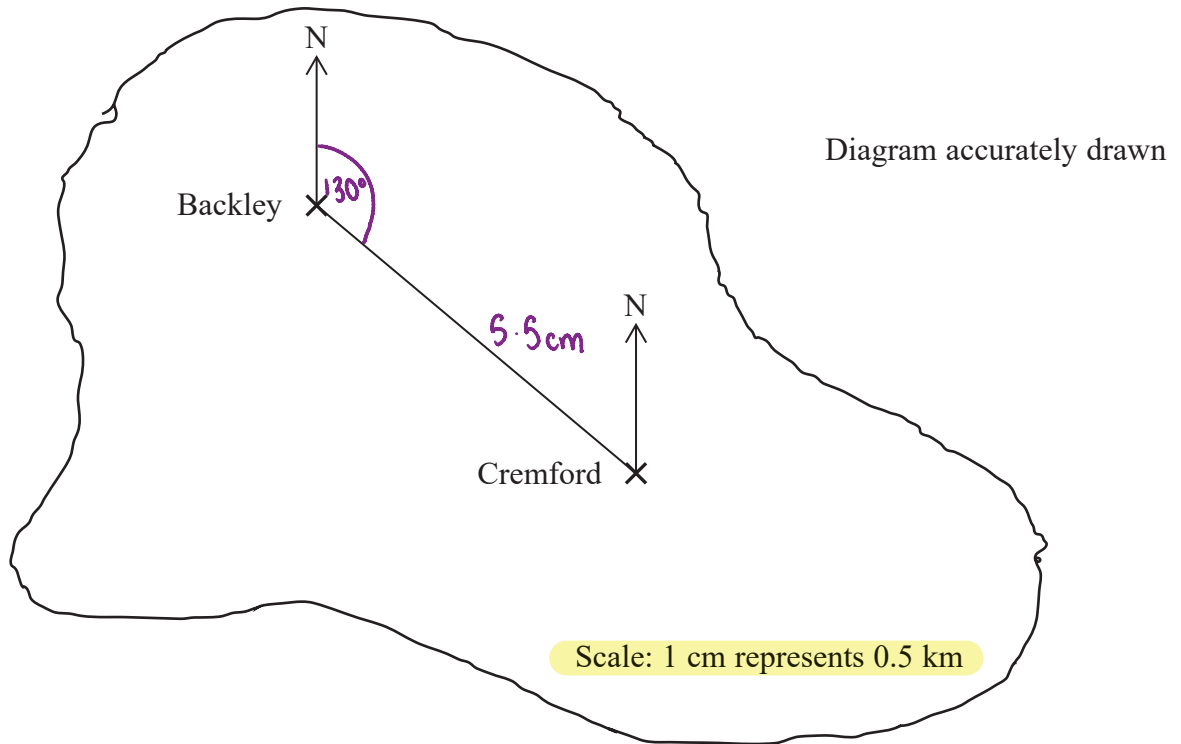
A straight road joins the two villages, Backley and Cremford.

(a) Work out the real distance between the two villages.

1cm = 0.5km

↓ ×5.5   ↓ ×5.5 ✓

5.5cm = 2.75km

..............2.75 ✓ ....km

(2)

(b) Find the bearing of Cremford from Backley.

...............130....................° ✓

(1)

(Total for Question   is 3 marks)

2. The diagram shows two points, *A* and *B*, on a map.
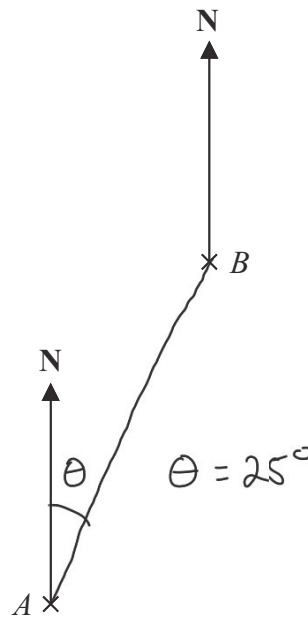
N

Diagram accurately drawn

length AB = 5cm ✓

N

θ   θ = 25°

A

Scale: 1 to 25 000

(a) Find the bearing of *B* from *A.* → Start at A and go to B.

.... 025 ✓ .... °

(1)

(b) Work out the real distance between *A* and *B.*
Give your answer in kilometres.

×5 (1 → 25 000) ×5
      (5 → 125 000 cm) ✓

       25 000 ²
×   5
      125 000

125 000 cm = 1250 m

1250 m = 1.25 km

.... 1.25 ✓ .... kilometres

(3)

(Total for Question   is 4 marks)