Name:

Exam Style Questions

Bearings

Corbettmaths

Equipment needed: Pen, Pencil, Protractor, Ruler

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

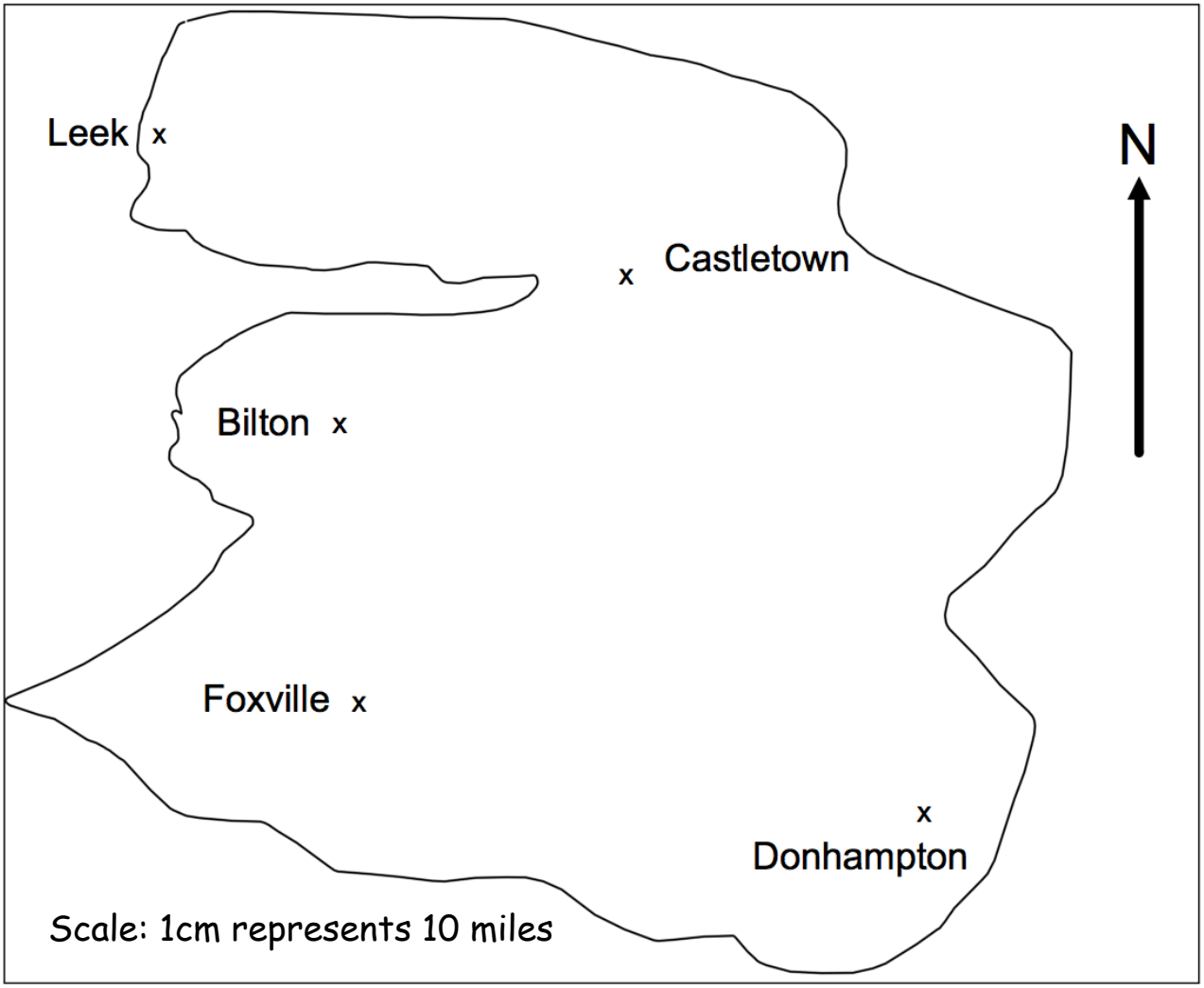
Video Tutorial

www.corbettmaths.com/contents

Video 26

Answers and Video Solutions

1. This is a map of an island.



A helicopter flies in a straight line from Leek to Donhampton.

(a) How far does the helicopter fly?

.....miles

(2)

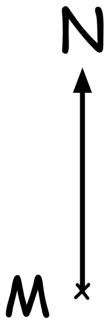
(b) Write down the bearing of Donhampton from Leek.

..... °

(1)

2. The diagram shows the position of Manchester.

Scale: 1cm represents 10 miles

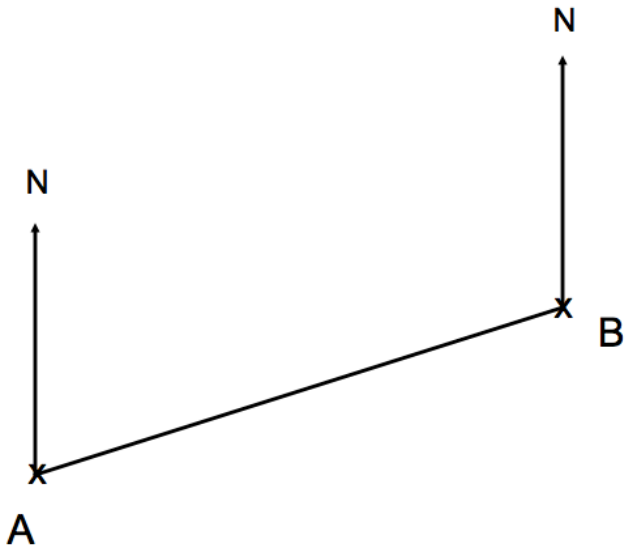


York is 60 miles away from Manchester on a bearing of 055°

Mark the position of York on the diagram.

(2)

3. The diagram shows the position of two houses, A and B, on a map.



(a) Measure the bearing of B from A.

..... °

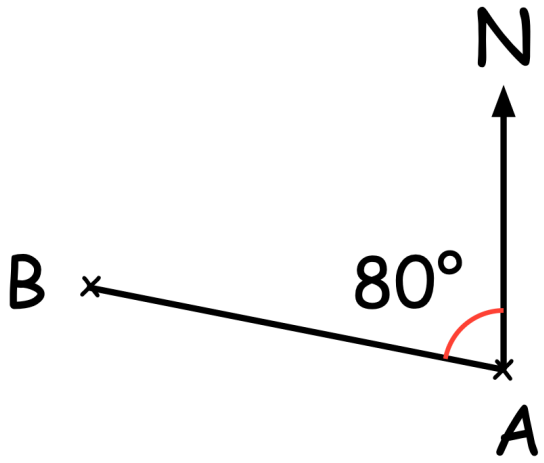
(1)

Another house C is on a bearing of 170° from B.
On the map, C is 5cm from B

(b) Mark the position of C with a cross (x) and label it C.

(2)

4. Olivia has been asked to find the bearing of B from A.
Shown below is her method.



Olivia's answer is 080°

Explain Olivia's mistake.

……

……

(2)

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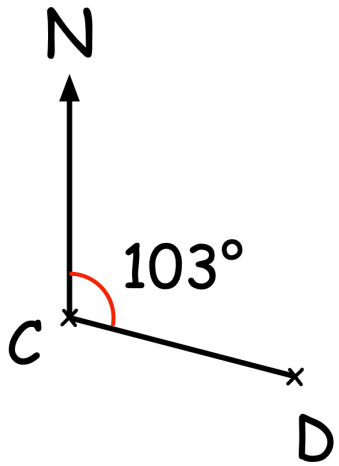
5. Oliver has been asked to find the bearing of C from D.
Shown below is his method.



Oliver's answer is 103°

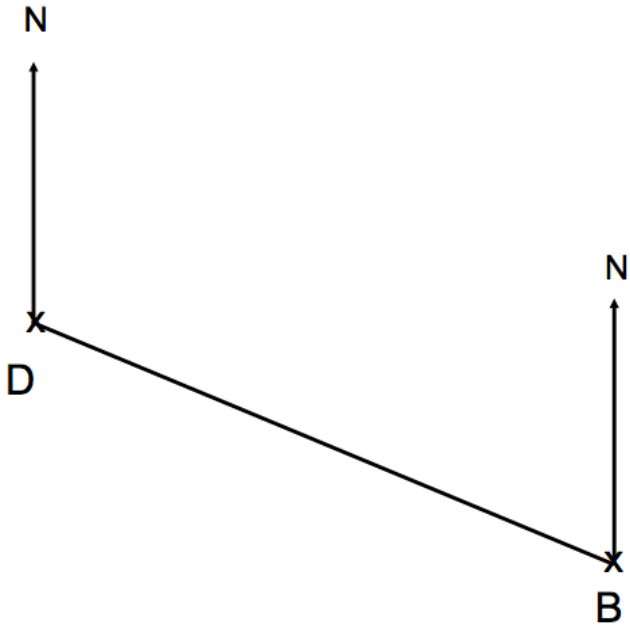
Explain Oliver's mistake.

……

……

(2)

6. The diagram shows the position of a boat B and a dock D.



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

(a) Work out the actual distance between the dock and the boat.

.....km

(2)

(b) Measure the bearing of the boat B from the dock D.

..... °

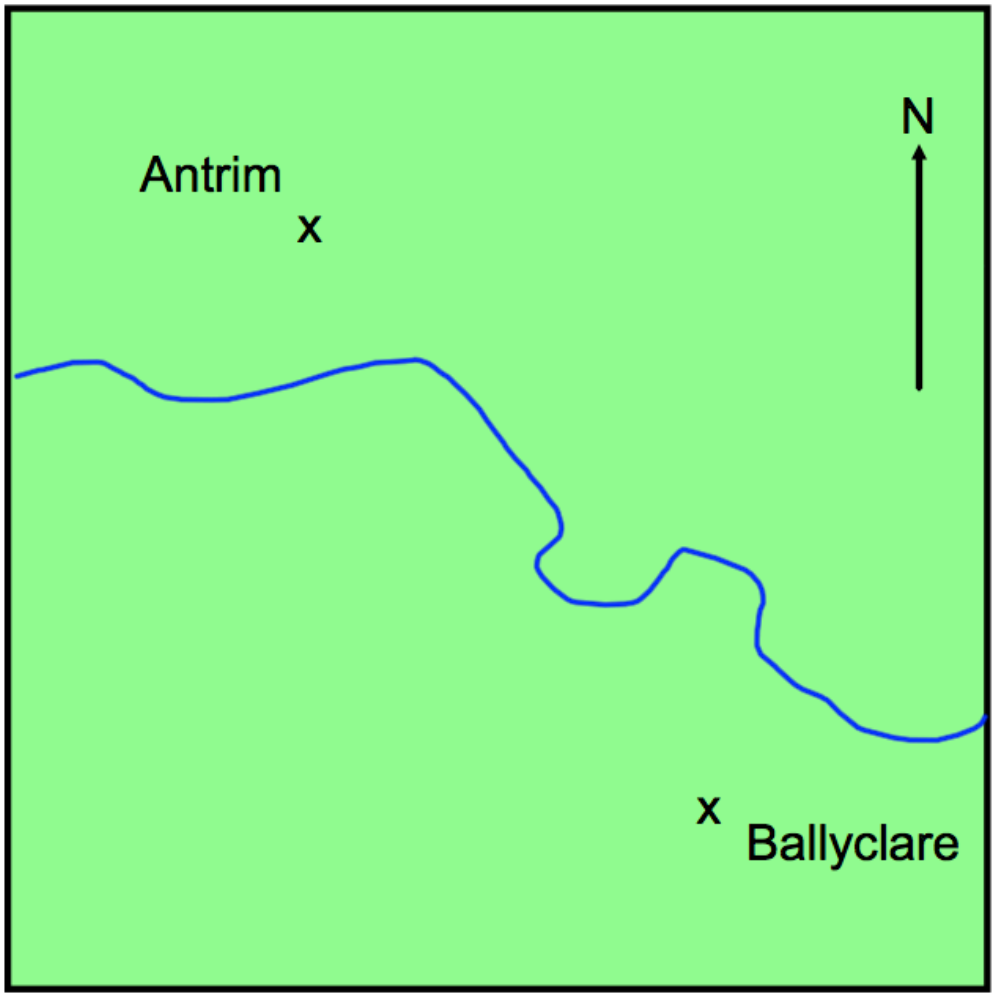
(1)

A yacht Y is 8km from the boat B on a bearing of 050°

(c) On the diagram, mark the position of yacht Y with a cross (x).
Label it Y.

(2)

7. The map below shows the position of two towns.



(a) Find the bearing of Ballyclare from Antrim.

..... °

(1)

(b) Find the bearing of Antrim from Ballyclare.

..... °

(1)

8.

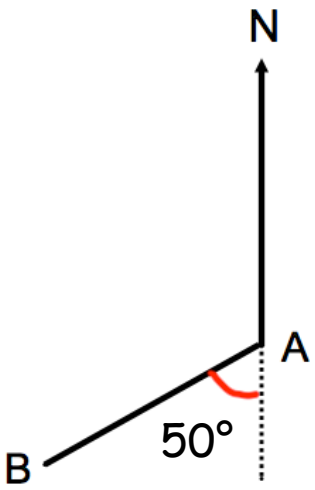


Diagram not drawn accurately

Work out the bearing of B from A.

..... °

(2)

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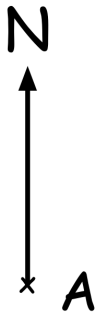
9. Sam stands at point A.

Scale: 1cm represents 20m

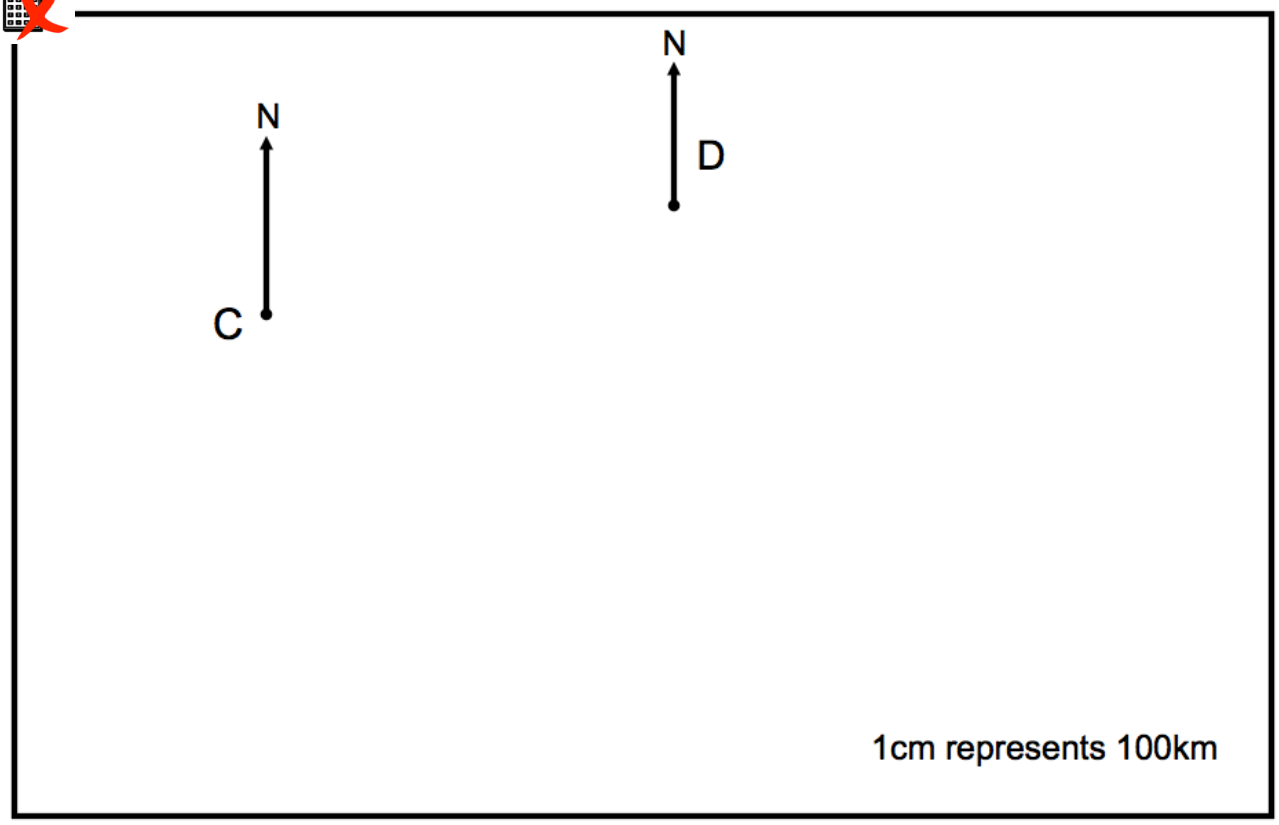


Sam runs 100m on a bearing of 290°

Mark Sam's finishing position, B, with a cross.

(2)

10. The diagram shows the position of two cities C and D.



(a) Work out the actual distance of D from C.

.....km
(2)

(b) Find the three figure bearing of D from C.

..... °
(1)

E is South-East of C.

(c) Write down the bearing of E from C.

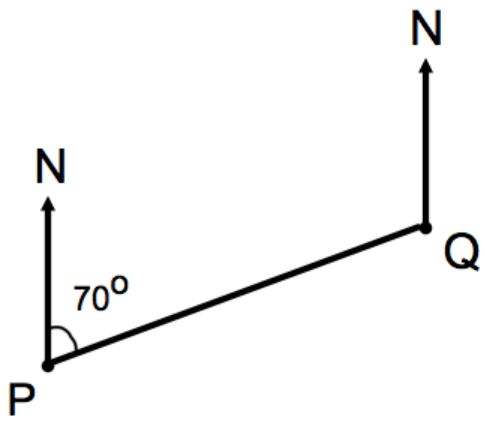
..... °
(1)

E is also on a bearing of 190° from D.

(d) Mark the position of E on the diagram.

(2)

11. The diagram shows the position of two airplanes, P and Q.



Not drawn accurately

The bearing of Q from P is 070°

Calculate the bearing of P from Q.

..... °

(2)

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12. The bearing of C from D is 165°

Calculate the bearing of D from C.

..... °

(2)

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13. The bearing of F from G is 300°

Calculate the bearing of G from F.

..... °

(2)

14. The diagram shows the position of two people, A and B, who are on their Duke of Edinburgh expedition.

The bearing of person C from person A is 062°
The bearing of person C from person B is 275°

In the space above, mark the position of person C with a cross (x). Label it C.

(3)

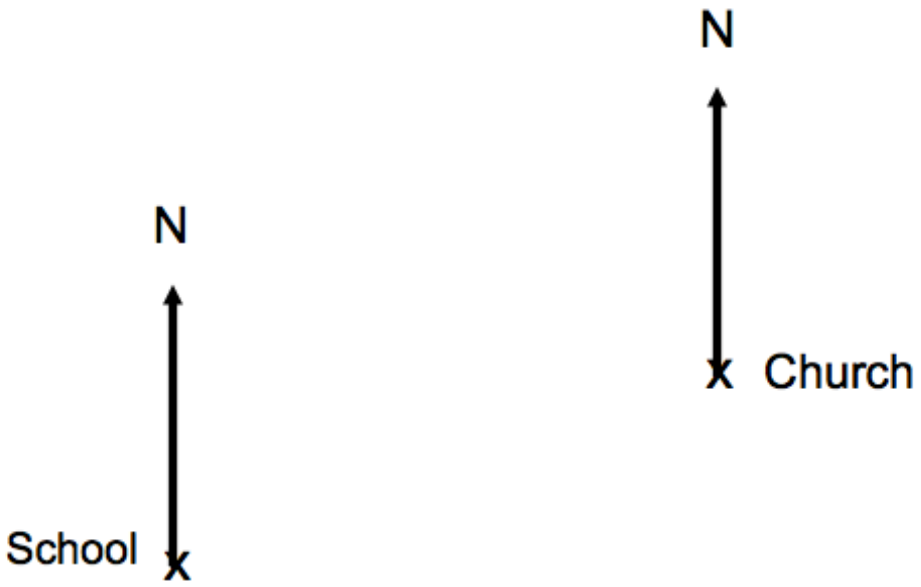
15. The diagram shows the position of two towns, A and B.

A rugby club, R, has bearing of 110° from town A.
The rugby club, R, has bearing 245° from town B.

In the space above, show the position of the rugby club R.
Mark the position with a cross (x) and label it R.

(3)

16. The map below shows the position of a church and a school.



The scale of the map is 1 : 10,000

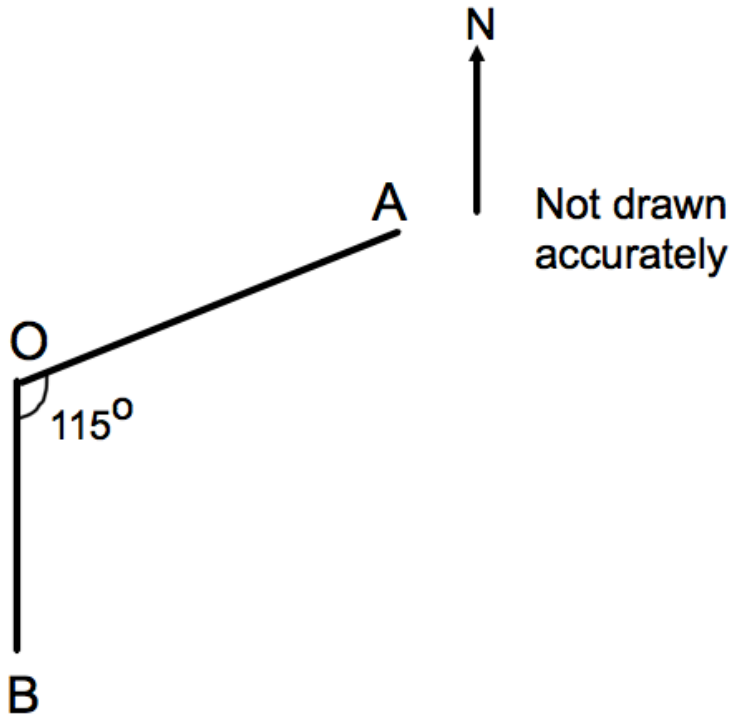
(a) Find the actual distance between the church and school.
Give your answer in metres.

.....m
(2)

(b) Find the bearing of the school from the church.

.....°
(2)

17. Gregory is at O and there are two roads, one towards A and another towards B. B is due South of O.



Gregory walks towards A.

(a) On what bearing does he walk?

.....°

(2)

Joshua is at A and walks towards Gregory.

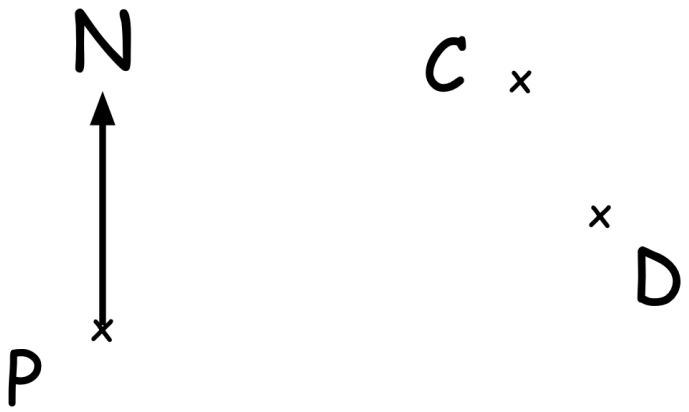
(b) On what bearing does he walk?

.....°

(2)

18. The diagram shows the position of a port P and two boats, C and D at 6am.

Scale: 1cm represents 10km



Boat C sails on a course of 200° at a speed of 15km/h

Boat D sails on a course of 015° at a speed of 35km/h

Find how far apart the boats are at 8am.
Give your answer in kilometres.

.....km

(4)