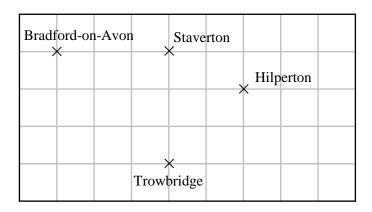


Bearings



REVISE THIS TOPIC

1 Here is a map of some towns and villages on a square centimetre grid.



(a) Write down the bearing of Trowbridge from Staverton.



(b) Write down the bearing of Bradford-on-Avon from Staverton.



 $\ \, \text{(c) Write down the bearing of Hilperton from Trowbridge}.$



(d) Write down the bearing of Trowbridge from Bradford-on-Avon



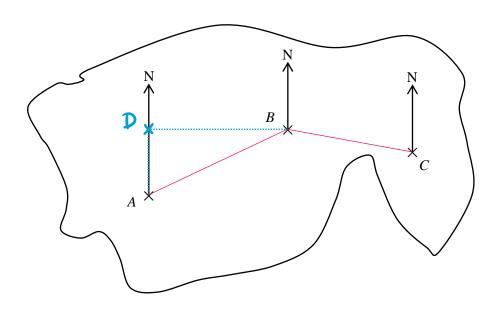
(Total for Question 1 is 4 marks)







2 Here is a map of an island with towns A, B and C.



(a) Find the bearing of town B from town A.

065°

(b) Find the bearing of town C from town B.



(c) Town D is

due North of town *A* due West of town *B*

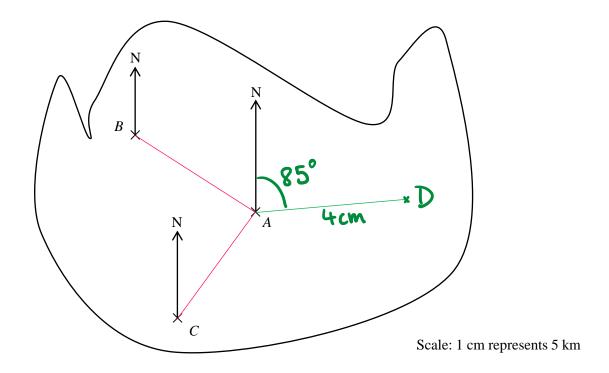
Mark town D onto the map.

(1)



(Total for Question 2 is 3 marks)

3 Here is a map of an island with towns A, B and C.



(a) Find the bearing of town B from town A.

303 °

(b) Find the bearing of town C from town A.

215 °

(c) Town D is 20 km from town A. The bearing of town D from town A is 085°

Mark town D onto the map.

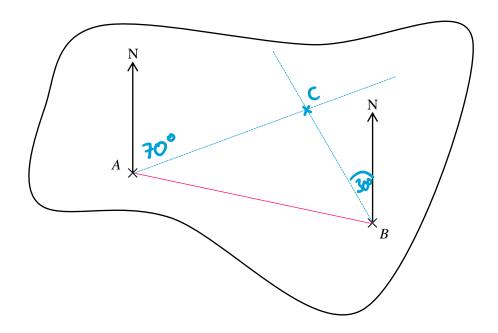
1cm : 5km

4 cm : 20 km (2



(Total for Question 3 is 4 marks)

4 Here is a map of an island with towns A and B.



(a) Find the bearing of town B from town A.

102

(b) Find the bearing of town A from town B.

282

(c) The bearing of town C from town A is 070° The bearing of town C from town B is 330°

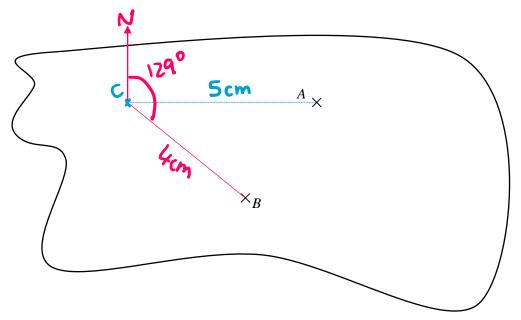
Mark town *C* onto the map.

(2)



(Total for Question 4 is 4 marks)

Here is a map of an island with towns *A* and *B*.



Scale: 1 cm represents 3 km

(a) Town C is 15 km due West of town A.

Mark town *C* onto the map.

(b) Find the bearing of town *B* from town *C*.

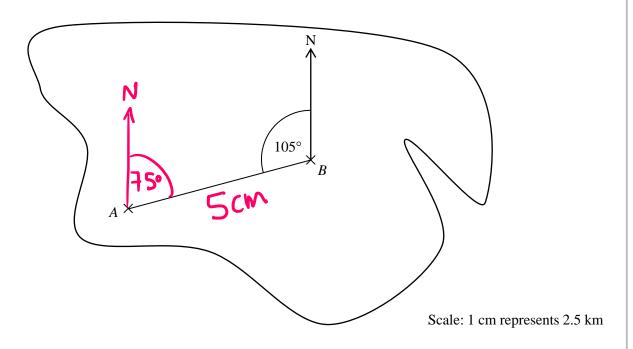
(c) Work out the actual distance between town B and town C. Give your answer in kilometres.





(Total for Question 5 is 5 marks)

Here is a map of an island with towns *A* and *B*.



(a) Elijah says that the bearing of town A from town B is 105° Explain why Elijah is incorrect.

bearings are measured

(b) Find the bearing of town *B* from town *A*.

(c) Work out the actual distance between town *A* and town *B*. Give your answer in kilometres.

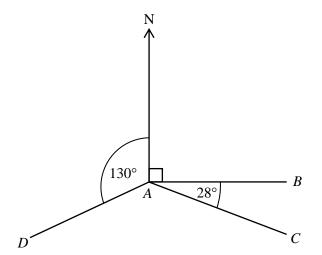
$$5 \times 2.5 = 12.5$$



(Total for Question 6 is 4 marks)



7 A, B, C and D are four points.



(a) Find the bearing of B from A.



Not drawn accurately

(b) Find the bearing of C from A.

$$90 + 28$$



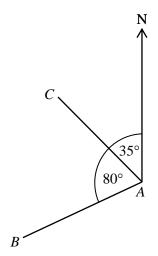
(c) Find the bearing of D from A.



(Total for Question 7 is 5 marks)



8 A, B, and C are three points.



Not drawn accurately

(a) Find the bearing of C from A.

325

(b) Find the bearing of B from A.

$$80 + 35 = 115$$

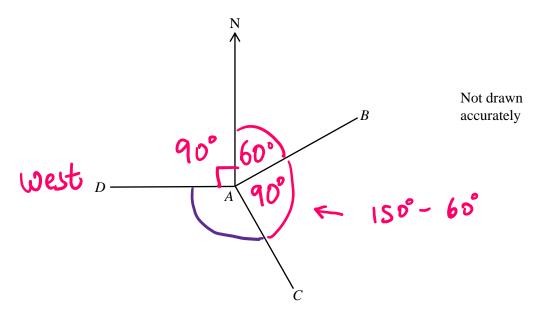
 $360 - 115 = 245$

245

(Total for Question 8 is 3 marks)



A, B, C and D are four points.



D is due West of A. The bearing of B from A is 060° The bearing of C from A is 150°

Work out Angle *DAC* : Angle *BAC* Give your answer in its simplest form.

$$90+60+90=240^{\circ}$$

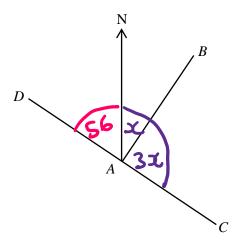
 $360-240=120^{\circ}$

(Total for Question 9 is 4 marks)





10 *A*, *B*, *C* and *D* are four points. *DAC* is a straight line.



Not drawn accurately

The bearing of *D* from $A = 304^{\circ}$ The bearing of *C* from $A = 4 \times$ the bearing of *B* from *A*.

Work out the bearing of B from A

$$360 - 304 = 56$$

$$180 - 56 = 124$$

$$400 = 124$$

$$x = 31$$

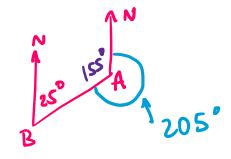


031

(Total for Question 10 is 4 marks)

11 The bearing of A from B is 025°

Work out the bearing of B from A.



$$180 - 25 = 155$$

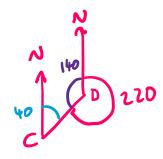
$$360 - 155 = 205$$

205

(Total for Question 11 is 2 marks)

12 The bearing of C from D is 220°

Work out the bearing of D from C.



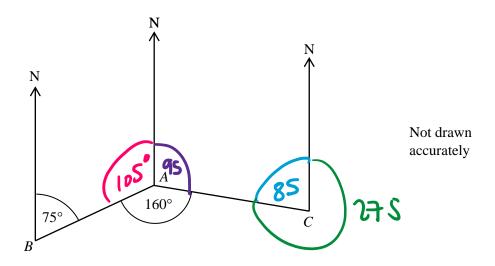
040

(Total for Question 12 is 2 marks)





13 A, B, and C are three points.



Work out the bearing of *A* from *C*.

$$180 - 75 = 105$$

 $360 - 105 - 160 = 95$
 $180 - 95 = 85$
 $360 - 85 = 275$

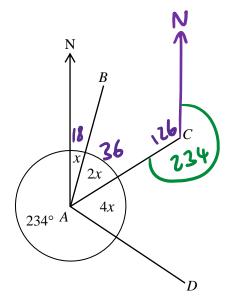


275

(Total for Question 13 is 4 marks)



14 *A*, *B*, *C* and *D* are four points.



Not drawn accurately

Work out the bearing of A from C.

$$x + 7x + 4x + 234 = 360$$

 $7x + 234 = 360$
 $7x = 126$
 $x = 18$

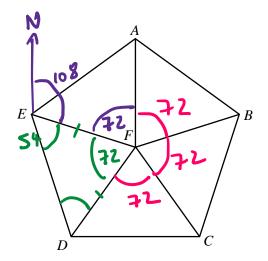
$$180 - 18 - 36 = 126$$
 $360 - 126 = 234$



234

(Total for Question 14 is 5 marks)

15 5 congruent triangles are used to form regular pentagon ABCDE.





(a) Find the bearing of D from F.

216

(b) Find the bearing of F from E.

108 °

(c) Find the bearing of D from F.

$$180 - 72 = 108$$
 $108 \div 2 = 54$

162

(*=*) orka)

(Total for Question 15 is 6 marks)

