



# Bearings



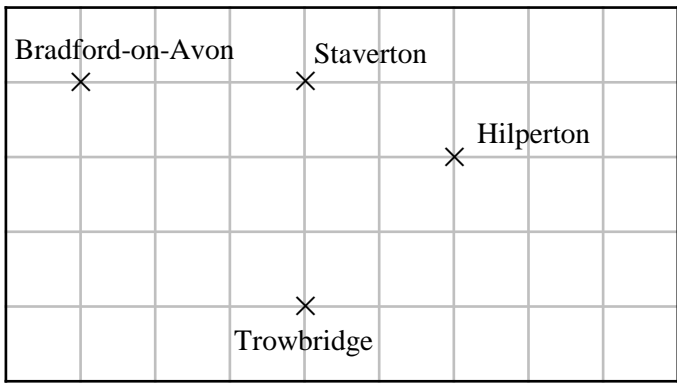
SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

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



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

.....  
(1)

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

.....  
(1)

(c) Write down the bearing of Hilperton from Trowbridge.

.....  
(1)

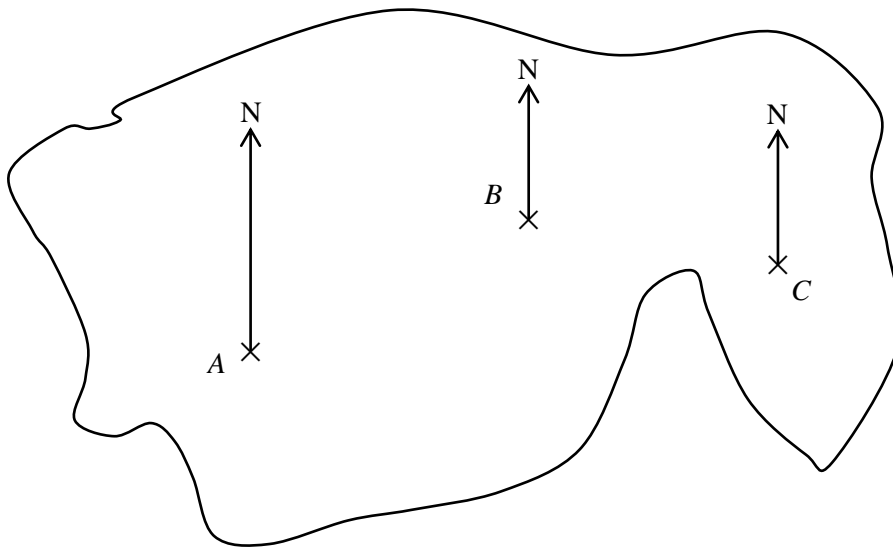
(d) Write down the bearing of Trowbridge from Bradford-on-Avon

.....  
(1)

(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  $A$ .

.....  
(1)

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

.....  
(1)

(c) Town  $D$  is

due North of town  $A$   
 due West of town  $B$

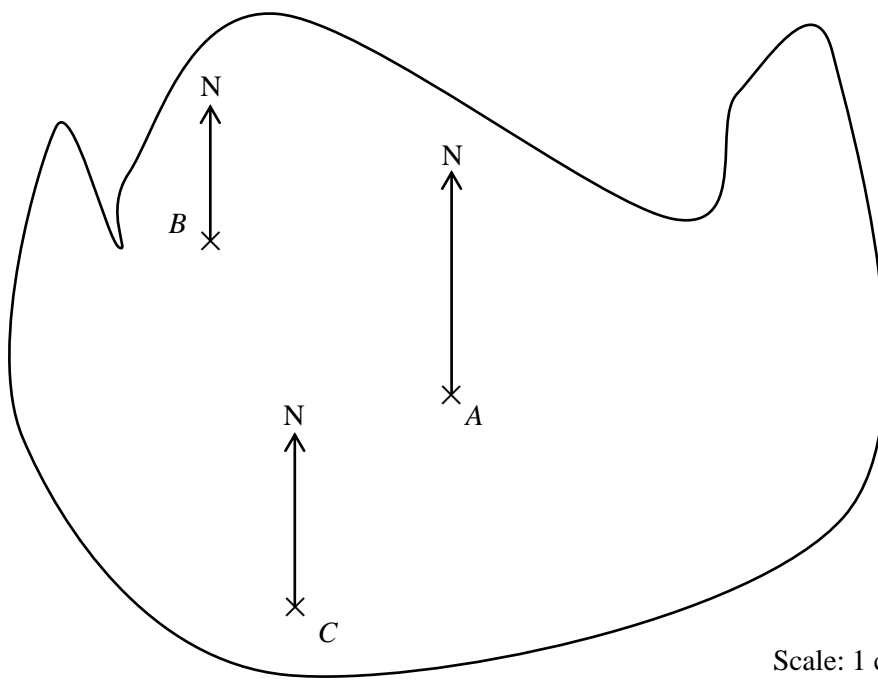
Mark town  $D$  onto the map.

(1)

(Total for Question 2 is 3 marks)



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



Scale: 1 cm represents 5 km

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

.....  
(1)

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

.....  
(1)

(c) Town  $D$  is 20 km from town  $A$ .  
The bearing of town  $D$  from town  $A$  is  $085^\circ$

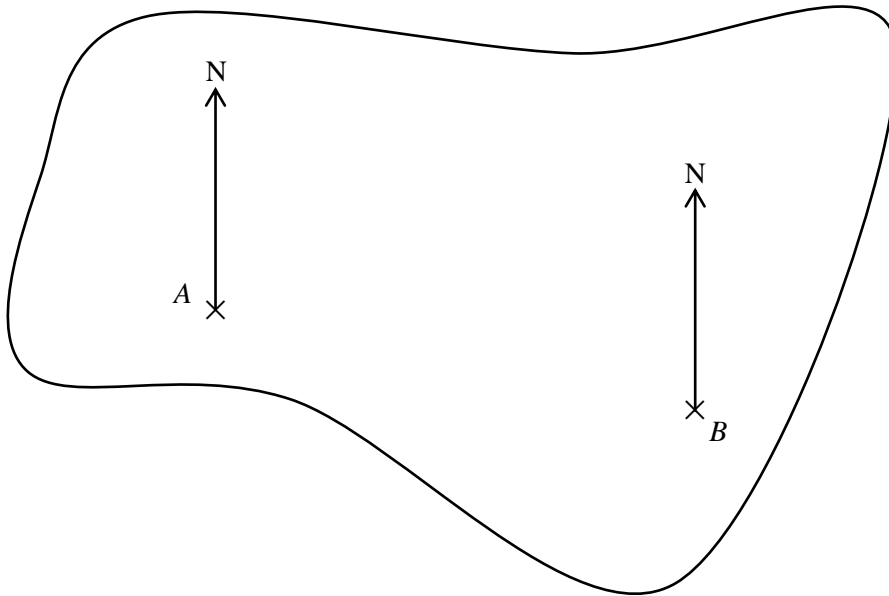
Mark town  $D$  onto the map.

(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*.

..... °  
 (1)

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

..... °  
 (1)

(c) The bearing of town *C* from town *A* is  $070^\circ$   
 The bearing of town *C* from town *B* is  $330^\circ$

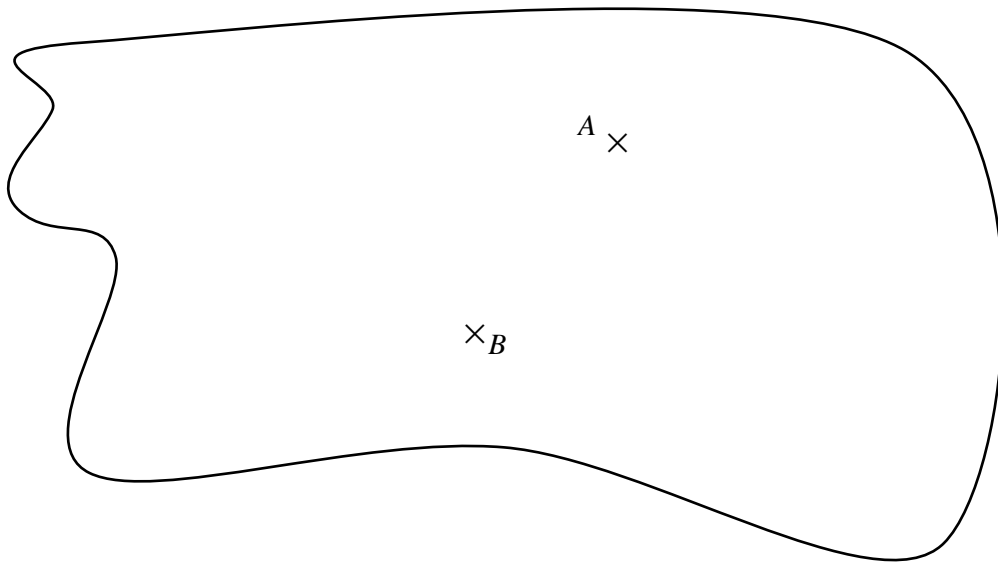
Mark town *C* onto the map.

(2)

(Total for Question 4 is 4 marks)



5 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.

(2)

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

..... km  
(1)

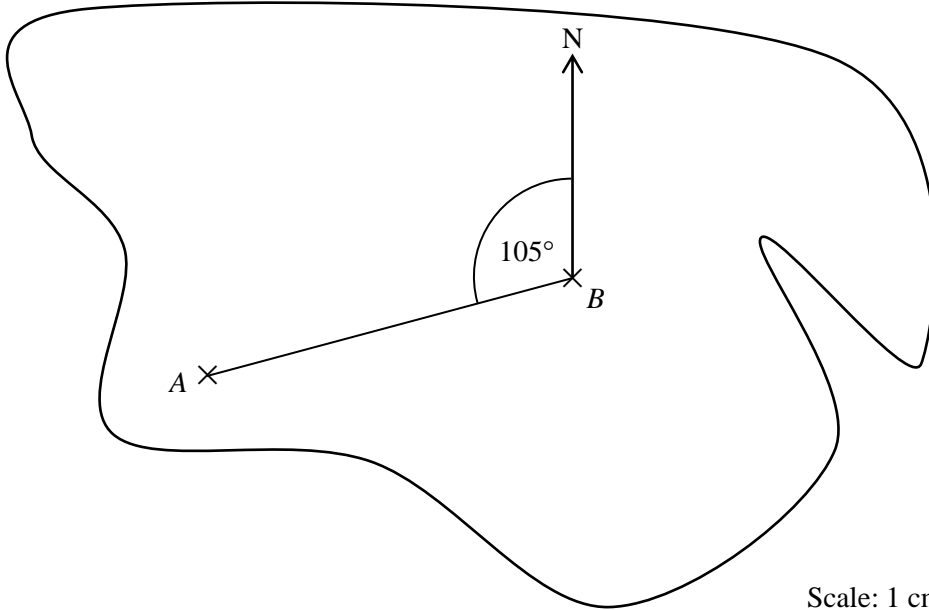
(c) Work out the actual distance between town  $B$  and town  $C$ .  
Give your answer in kilometres.

..... km  
(2)

(Total for Question 5 is 5 marks)



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



Scale: 1 cm represents 2.5 km

(a) Elijah says that the bearing of town  $A$  from town  $B$  is  $105^\circ$ .  
Explain why Elijah is incorrect.

.....

.....

(1)

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

.....

(1)

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

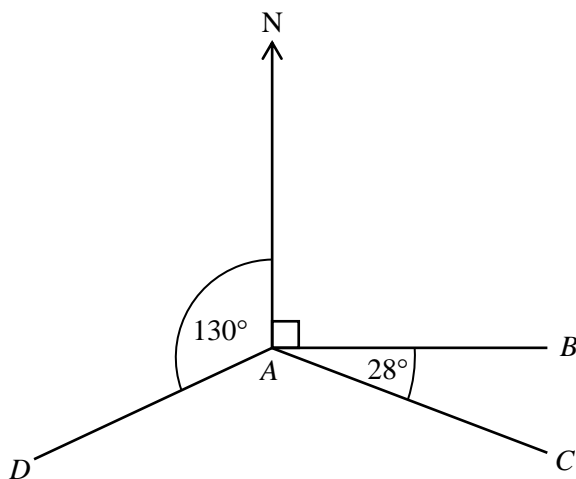
..... km

(2)

(Total for Question 6 is 4 marks)



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



Not drawn accurately

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

.....  
(1)

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

.....  
(2)

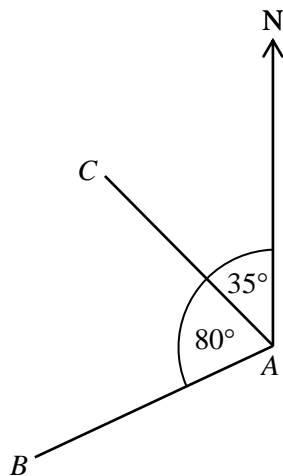
(c) Find the bearing of  $D$  from  $A$ .

.....  
(2)

(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  $A$ .

.....  
(1)

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

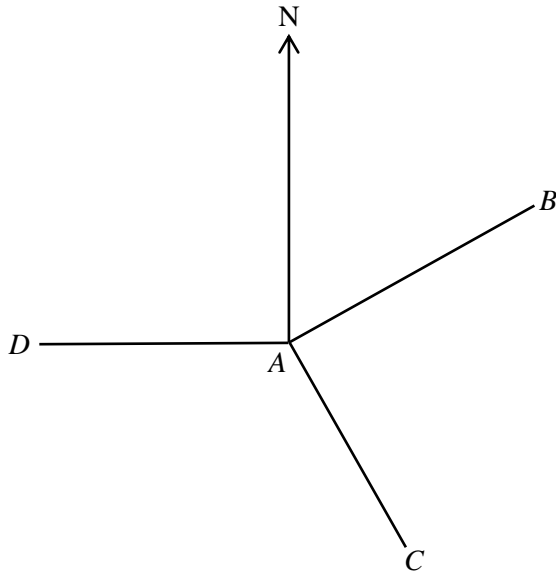
.....  
(2)

(Total for Question 8 is 3 marks)





9  $A, B, C$  and  $D$  are four points.



Not drawn accurately

$D$  is due West of  $A$ .

The bearing of  $B$  from  $A$  is  $060^\circ$

The bearing of  $C$  from  $A$  is  $150^\circ$

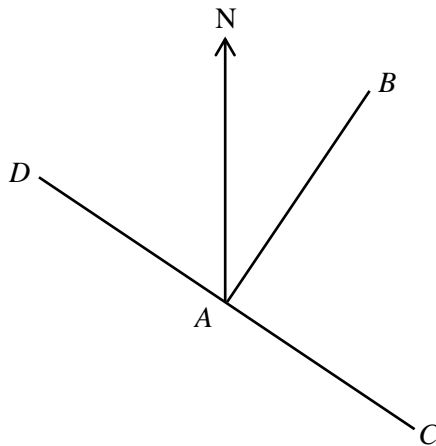
Work out Angle  $DAC$  : Angle  $BAC$

Give your answer in its simplest form.

.....  
(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  $A$

.....  
 (Total for Question 10 is 4 marks)



11 The bearing of  $A$  from  $B$  is  $025^\circ$

Work out the bearing of  $B$  from  $A$ .

.....  
(Total for Question 11 is 2 marks)

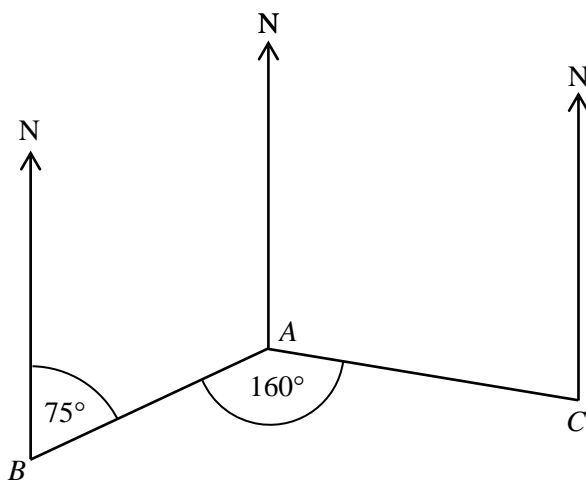
12 The bearing of  $C$  from  $D$  is  $220^\circ$

Work out the bearing of  $D$  from  $C$ .

.....  
(Total for Question 12 is 2 marks)



13  $A$ ,  $B$ , and  $C$  are three points.



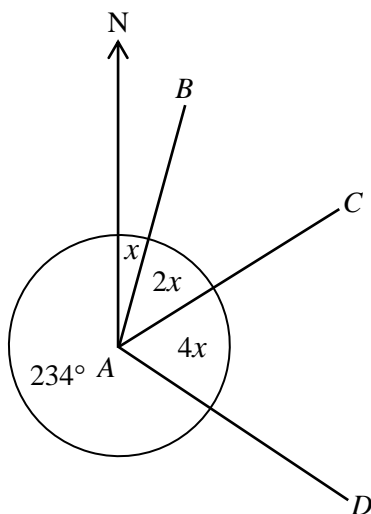
Not drawn accurately

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

.....  
(Total for Question 13 is 4 marks)



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



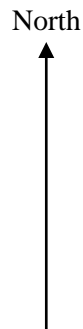
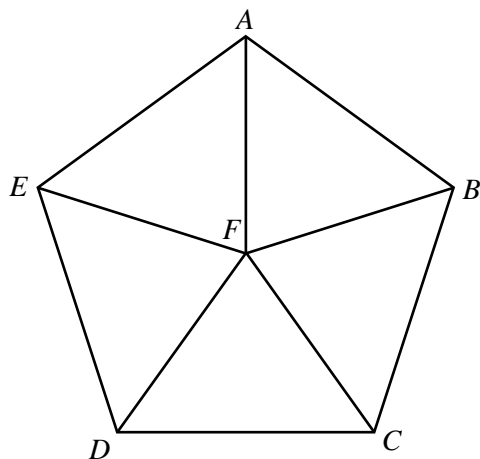
Not drawn accurately

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

.....  
(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  $F$ .

.....  
(2)

(b) Find the bearing of  $F$  from  $E$ .

.....  
(2)

(c) Find the bearing of  $D$  from  $F$ .

.....  
(2)

(Total for Question 15 is 6 marks)

