



Aberdare Community School  
Mathematics Department

WJEC GCSE  
**Higher – Non Calculator**  
Shape

# **Bearings**

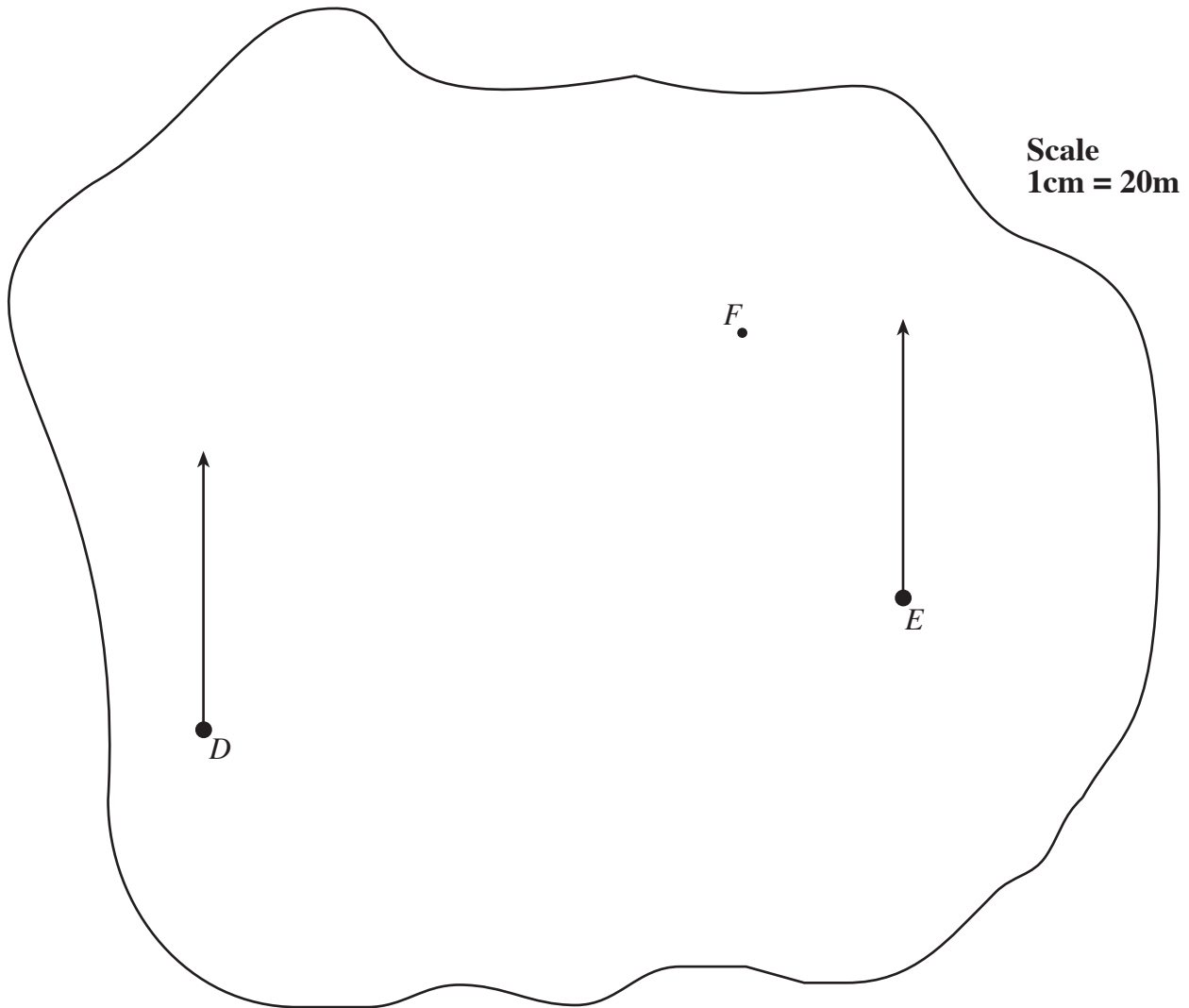
Name: .....

Set: .....

Date: .....

Teacher: .....

(b)



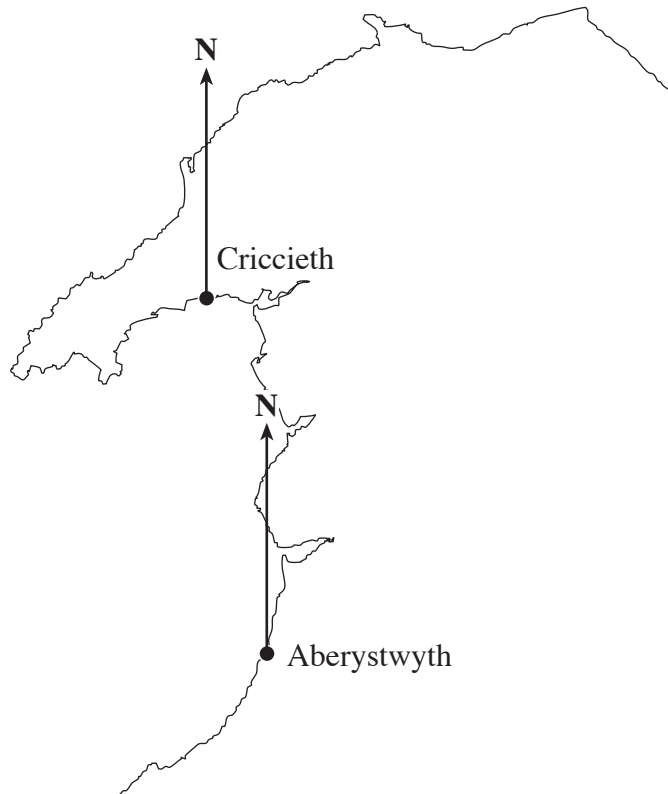
- (i) Write down the bearing of point  $F$  from point  $E$ .

[1]

- (ii) A point  $G$  is to be plotted on the above plan. The bearing of  $G$  from  $D$  is  $036^\circ$ , and the bearing of  $G$  from  $E$  is  $285^\circ$ . Find and mark the position of  $G$  on the above plan.

[3]

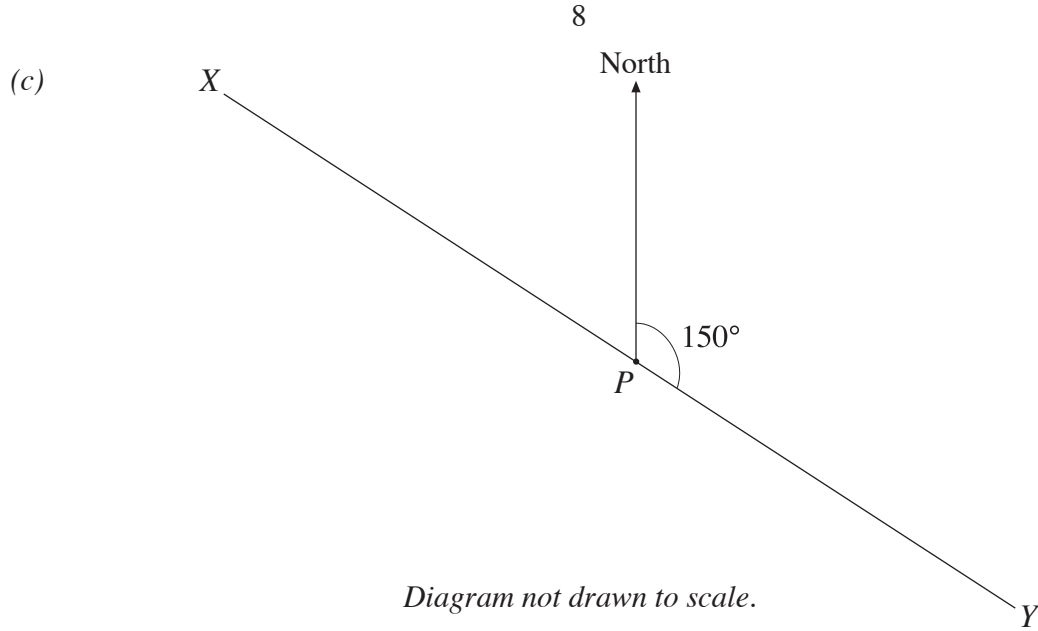
5.



A ship,  $S$ , is on a bearing of  $220^\circ$  from Criccieth and on a bearing of  $305^\circ$  from Aberystwyth.

By drawing suitable lines on the above diagram, mark the position of  $S$ .

[3]



The above diagram shows three points  $X$ ,  $P$  and  $Y$  which lie on a straight line. The bearing of  $Y$  from  $P$  is  $150^\circ$ . Find the bearing of  $X$  from  $P$ .

.....

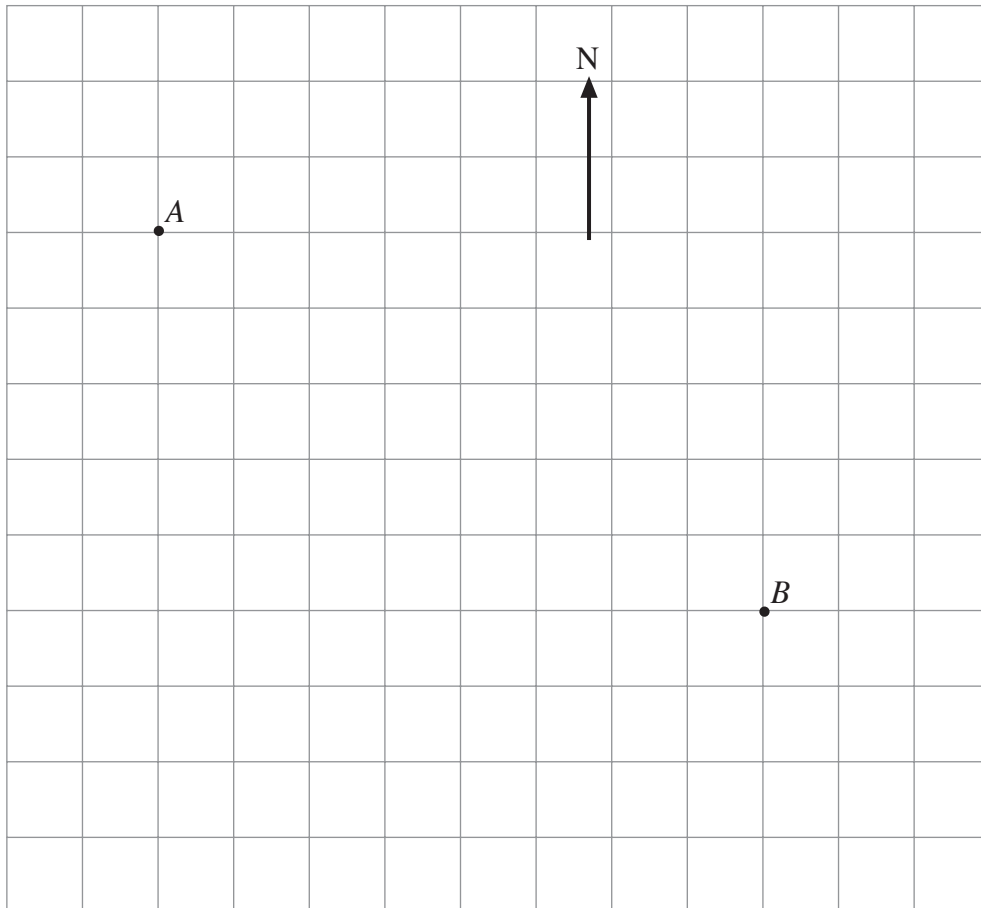
.....

.....

[2]

6. (a) Two towns are represented by the points  $A$  and  $B$  on the grid below. Write down the bearing of  $A$  from  $B$ .

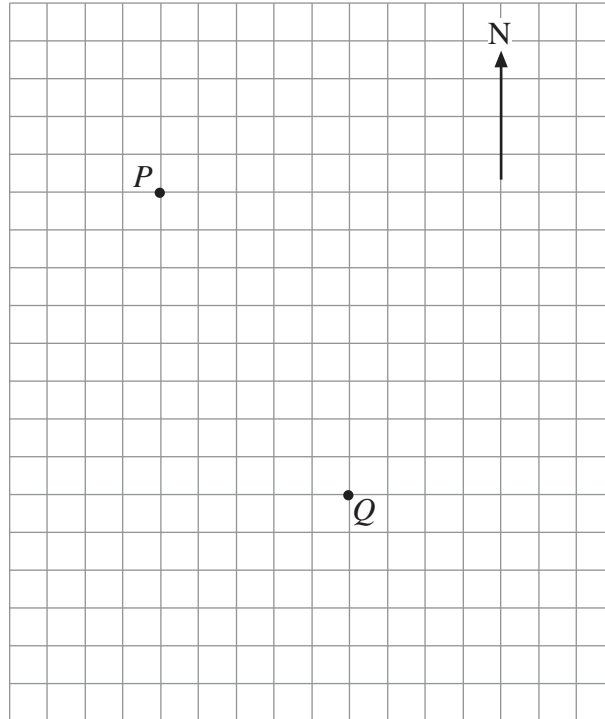
[1]



- (b) Another town,  $C$ , is on a bearing of  $145^\circ$  from  $A$  and on a bearing of  $243^\circ$  from  $B$ . Plot as accurately as you can, the position of this town.

[3]

5. (a) The points  $P$  and  $Q$  on the grid represent two towns.



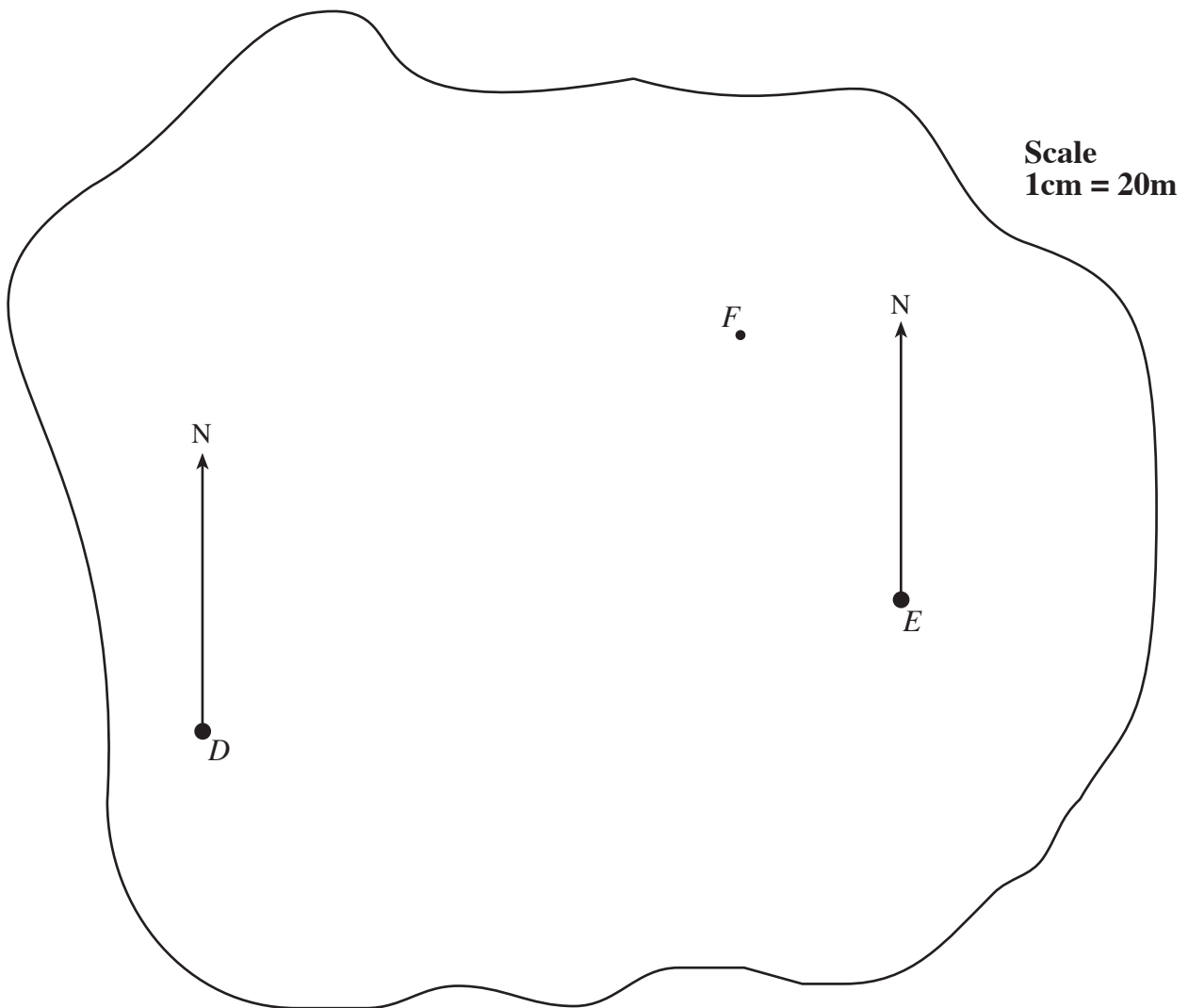
- (i) Find the bearing of  $P$  from  $Q$ .

.....

- (ii) Another town,  $R$ , is on a bearing  $270^\circ$  from  $Q$  and  $180^\circ$  from  $P$ . Mark  $R$  on the grid.

[3]

(b) The following diagram is drawn to scale. The scale used is 1 cm represents 20 m.



- (i) Write down the bearing of point  $F$  from point  $E$ .

.....  
[1]

- (ii) A point  $G$  is to be plotted on the above plan. The bearing of  $G$  from  $D$  is  $036^\circ$ , and the bearing of  $G$  from  $E$  is  $285^\circ$ . Find and mark the position of  $G$  on the above plan.

[3]

(b)

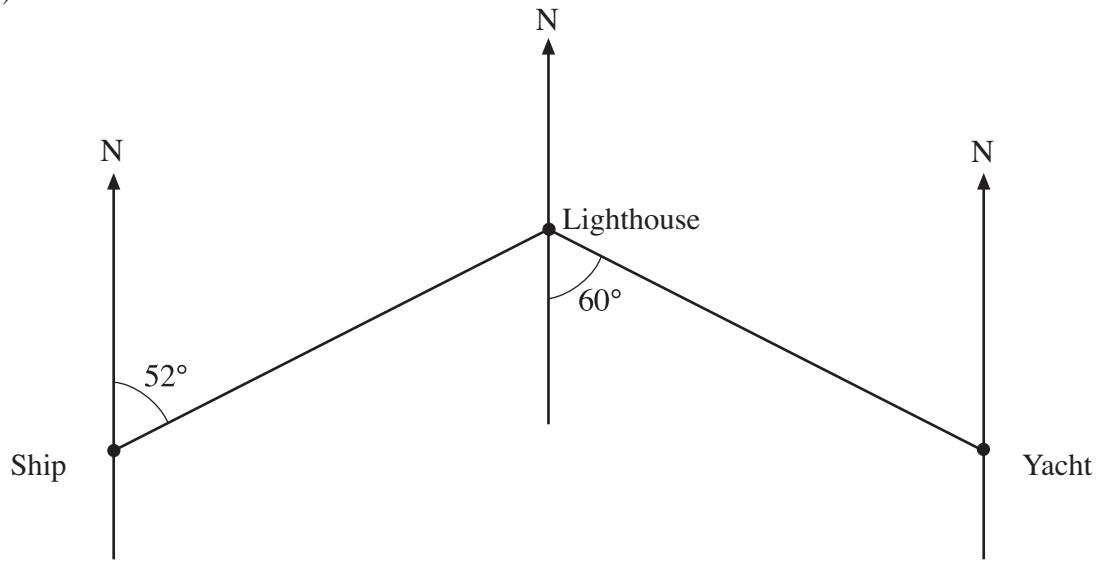


Diagram not drawn to scale.

Write down the bearing of:

(i) the yacht from the lighthouse.

.....

(ii) the ship from the lighthouse.

.....

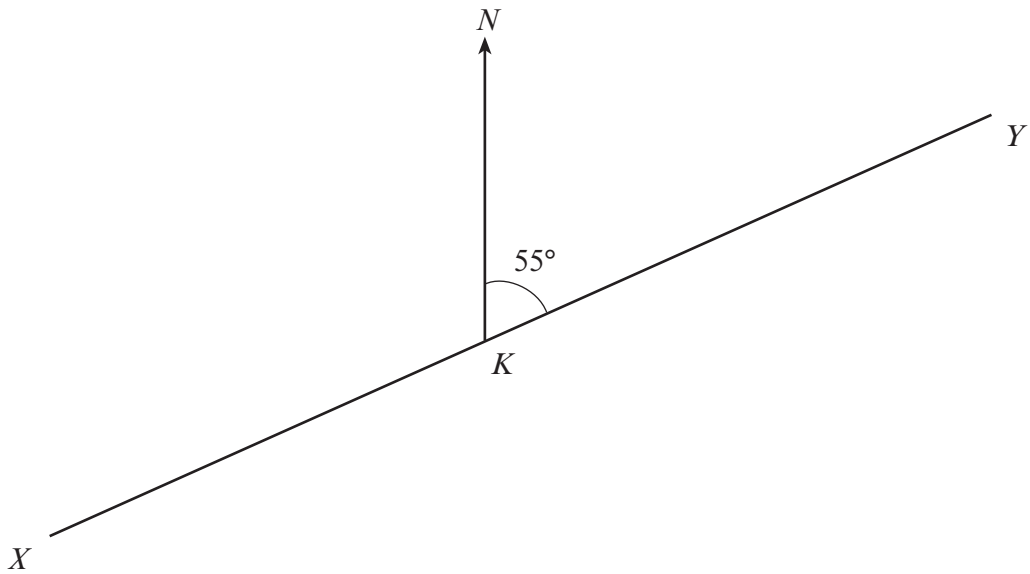
.....

[3]



[2]

(d)



*Diagram not drawn to scale*

The above diagram shows three points  $X$ ,  $K$  and  $Y$  which lie on a straight line.  
The bearing of  $Y$  from  $K$  is  $055^\circ$ . Find the bearing of  $X$  from  $K$ .

.....

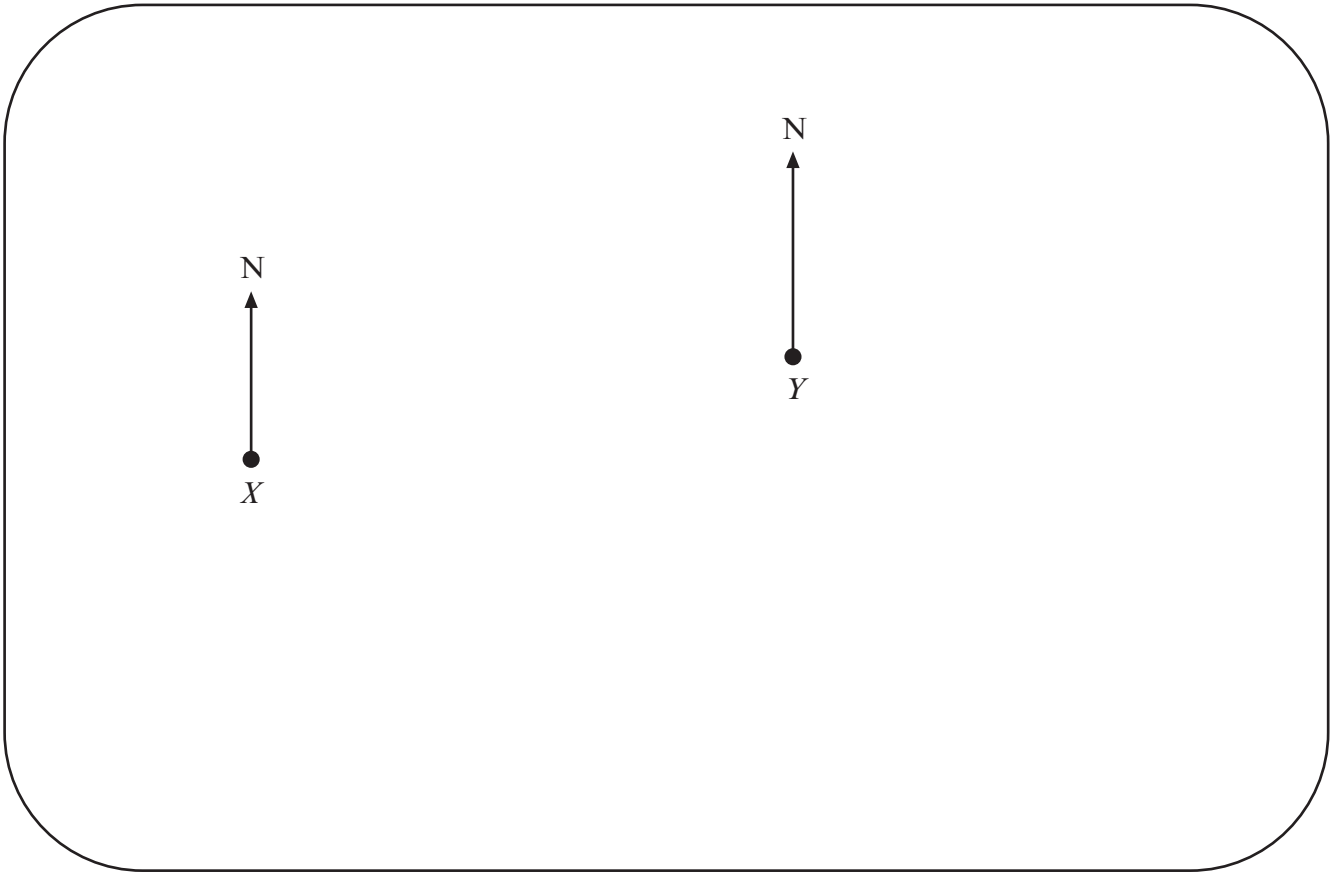
.....

.....

[2]

(b) This plan is drawn to scale.

Scale: 1 cm represents 20 m



(i) Write down the bearing of the point  $X$  from the point  $Y$ .

.....

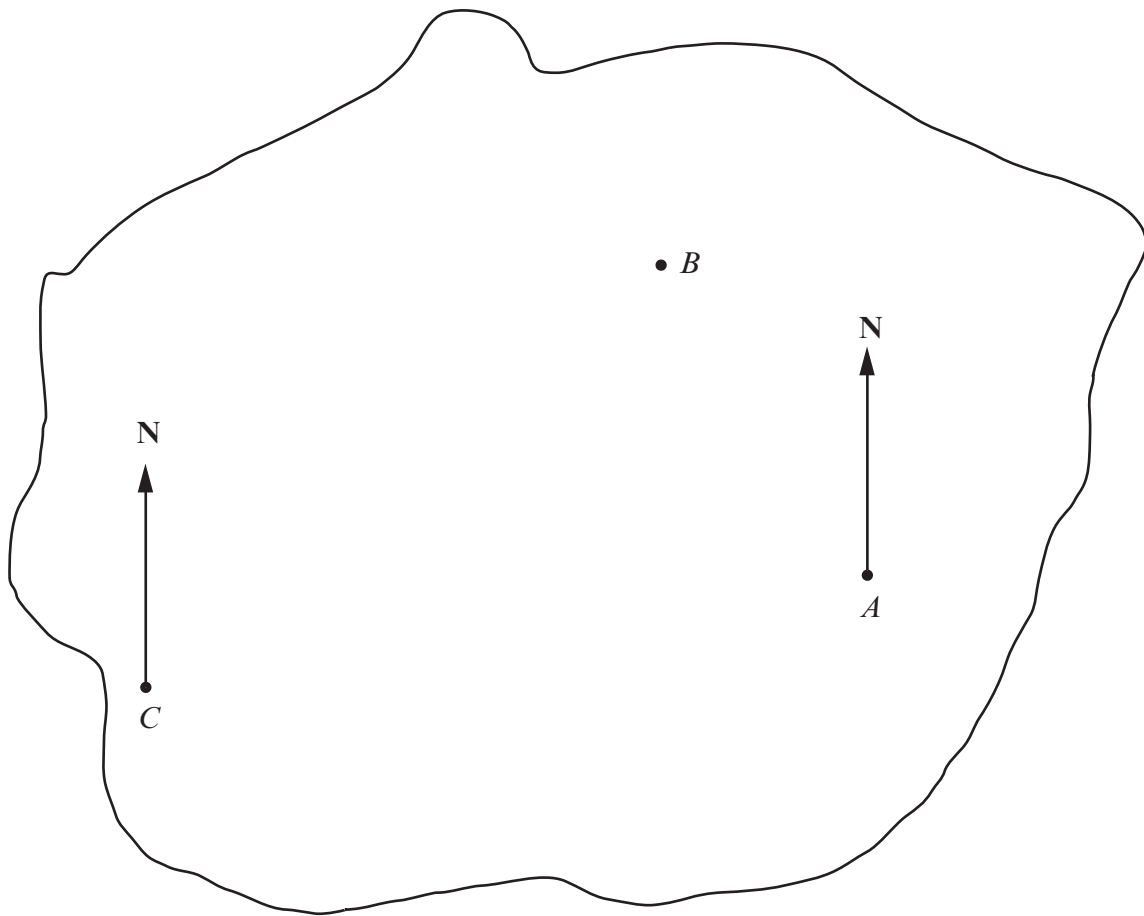
(ii) A point  $Z$  is to be plotted on the above plan.  
The bearing of  $Z$  from  $X$  is  $100^\circ$ , and the bearing of  $Z$  from  $Y$  is  $225^\circ$ .  
Find and mark the position of  $Z$  on the above plan.

(iii) How far is  $Z$  from  $X$  in metres?

.....

[5]

(c)

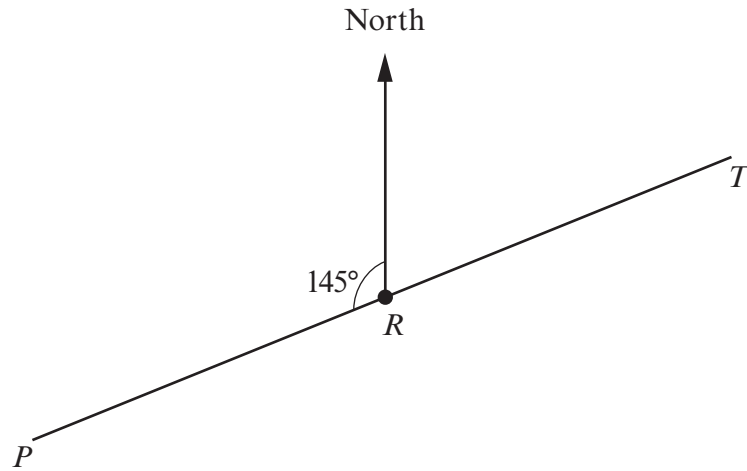


- (i) Write down the bearing of point  $B$  from point  $A$ .
- .....

- (ii) A point  $D$  is to be plotted on the above plan.  
The bearing of  $D$  from  $C$  is  $038^\circ$ , and the bearing of  $D$  from  $A$  is  $305^\circ$ .  
Find and mark the position of  $D$  on the above plan.

[4]

(c)



*Diagram not drawn to scale*

The above diagram shows three points  $P$ ,  $R$  and  $T$  which lie on a straight line.  
The bearing of  $T$  from  $R$  is  $035^\circ$ .  
Calculate the bearing of  $P$  from  $R$ .

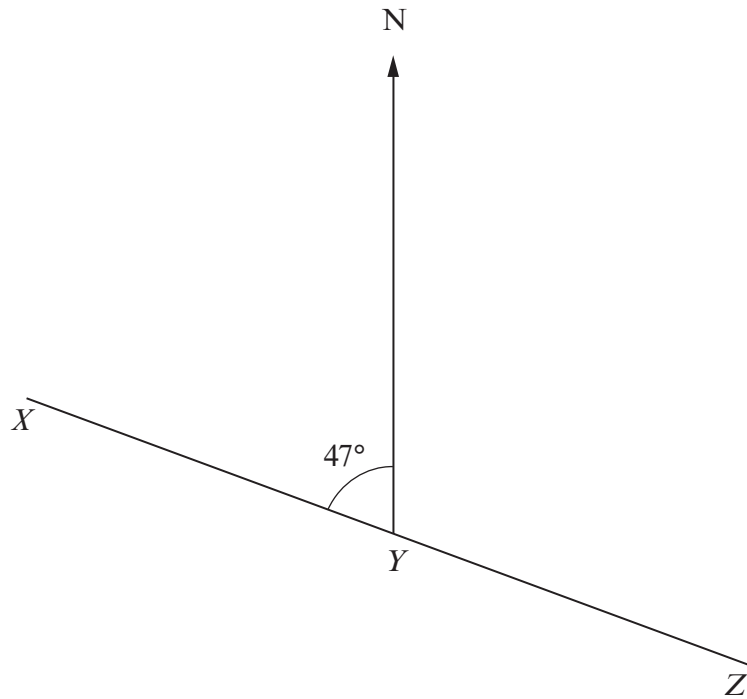
.....

.....

[2]



7.

*Diagram not drawn to scale*

The above diagram shows three points  $X$ ,  $Y$  and  $Z$  which lie on a straight line.

Calculate the bearing of

(a)  $Z$  from  $Y$ ,

.....

.....

[1]

(b)  $X$  from  $Y$ .

.....

.....

[2]

