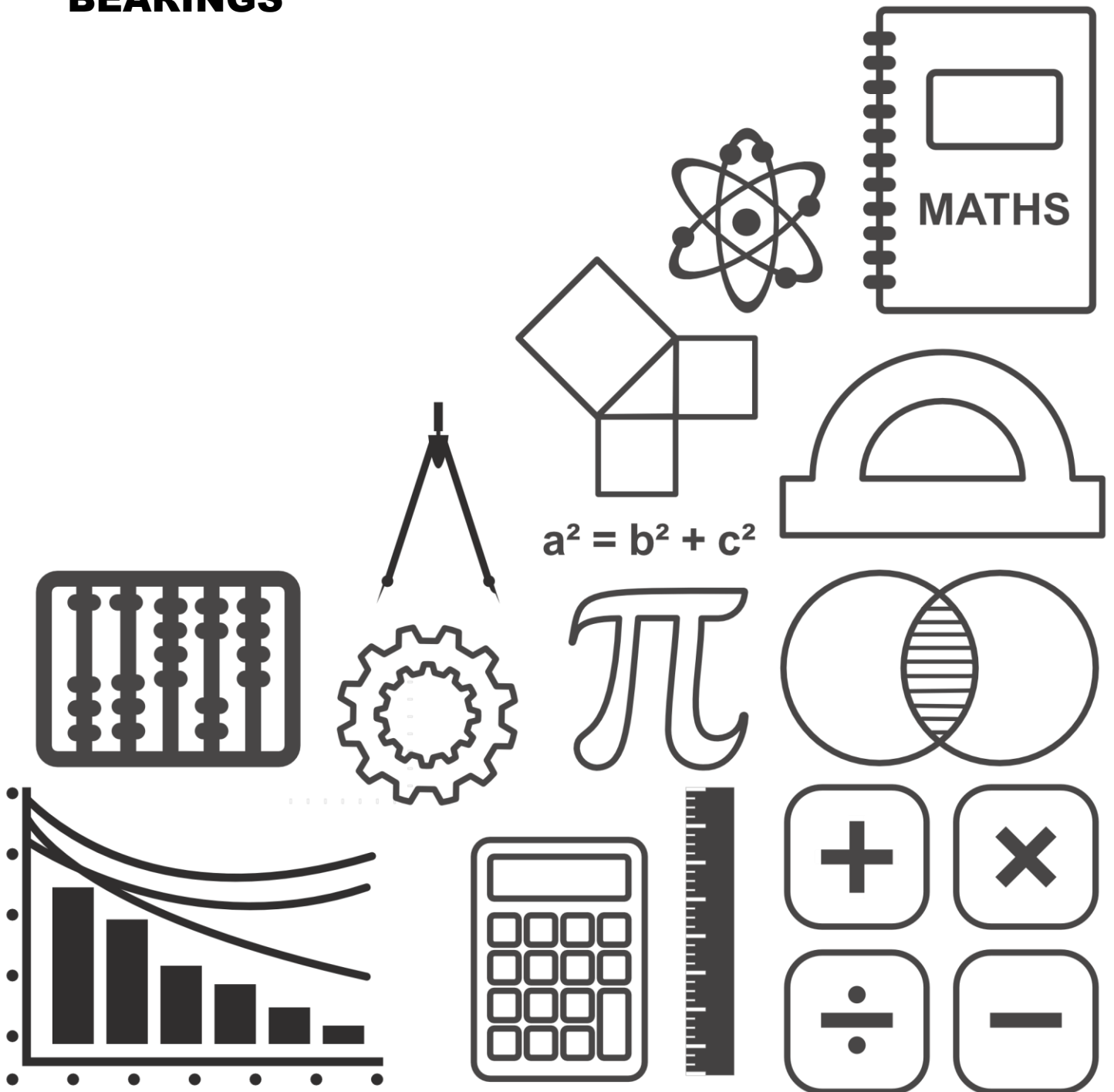


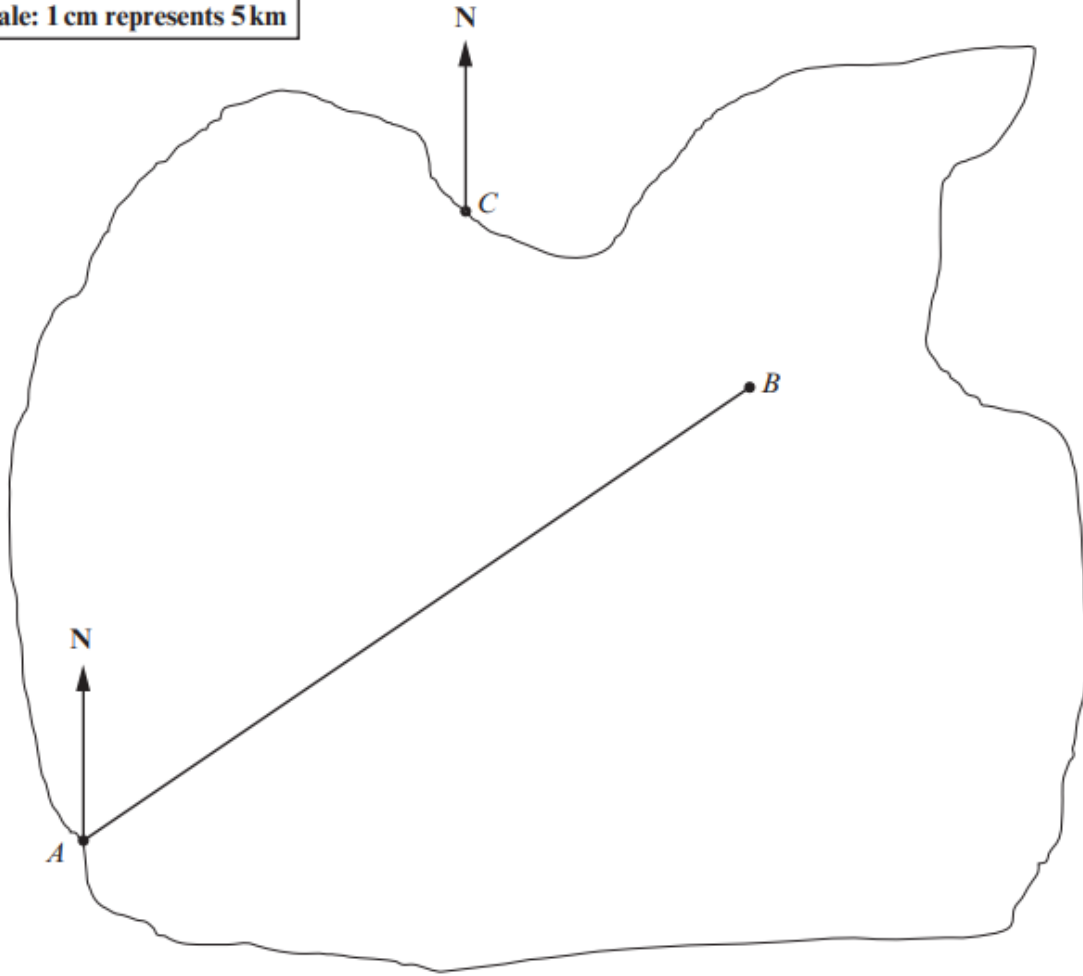
# MATHS DIY

## GCSE TOPIC BOOKLET BEARINGS



1.

Scale: 1 cm represents 5 km



- (a) The diagram represents a map drawn to a scale of 1 cm to represent 5 km. Measure the length of  $AB$  and calculate the distance  $AB$  in kilometres.

$AB = \dots\dots\dots$  cm

.....  
 .....

$AB = \dots\dots\dots$  km  
 [3]

- (b) The point  $D$  is at a distance of 45 km from the point  $C$  on a bearing of  $136^\circ$ . Plot the point  $D$  on the above map.

.....  
 .....

[2]

2.

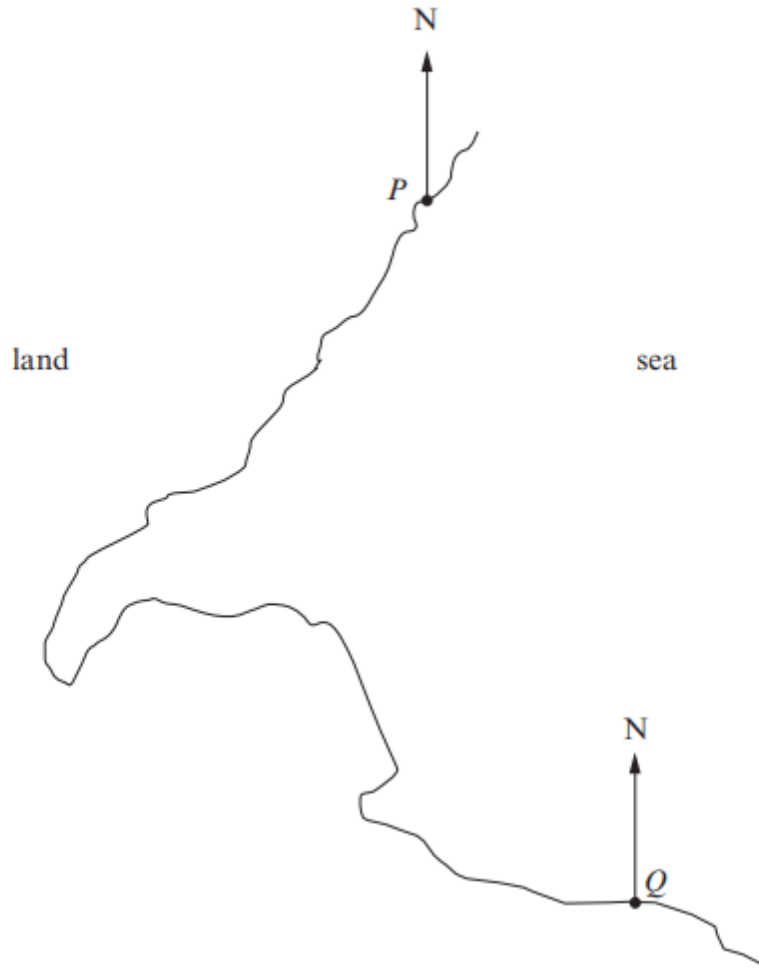
A ship is on a bearing of  $215^\circ$  from Holyhead and on a bearing of  $324^\circ$  from Cardigan. By drawing suitable lines, mark the position of the ship as C.

[3]



3.

- (a)  $P$  and  $Q$  are two ports shown on a map with scale  $1\text{ cm} = 8\text{ km}$ . Find the straight-line distance, in km, from  $P$  to  $Q$ .



.....

.....

.....

.....

[3]

- (b) A ship is on a bearing of  $147^\circ$  from  $P$  and on a bearing of  $021^\circ$  from  $Q$ . Plot the position of the ship and mark it  $X$ .

[3]

4.

On the map below, 1 cm represents 5 km.

A ship is on a bearing of  $027^\circ$  from Fishguard and  $330^\circ$  from Aberaeron.

How far is the ship from Aberystwyth?

You must show all the lines you need to draw on the map.

[4]



.....

.....

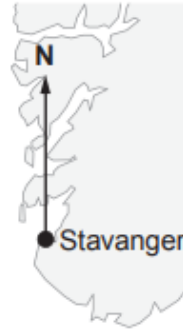
Distance of the ship from Aberystwyth = .....

5.

The map shows a scale diagram of part of the North Sea coastline.

A ship is on a bearing of  $035^\circ$  from Aberdeen in Scotland and on a bearing of  $290^\circ$  from Stavanger in Norway.

By drawing suitable lines on the diagram below, find and mark the position of the ship. [3]



6.

- (a) *A* and *B* are two rescue centres shown on a map with scale 1 cm = 5 km.  
Measure and find the straight line distance, in km, from *A* to *B*.

[3]




---



---



---



---

- (b) A monument is on a bearing of  $136^\circ$  from *A* and on a bearing of  $219^\circ$  from *B*.  
Plot the position of the monument and mark it *M*.

[3]