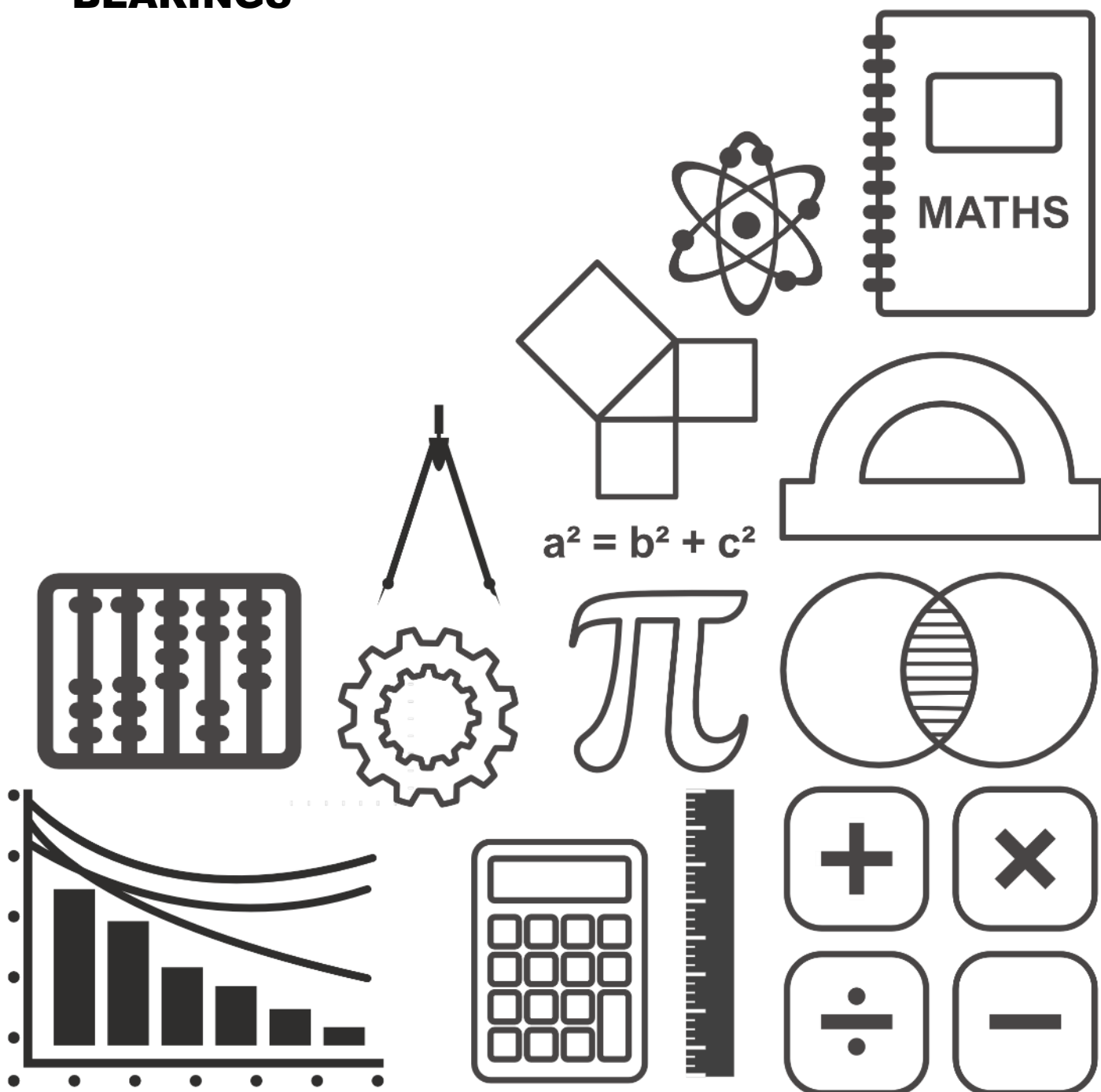


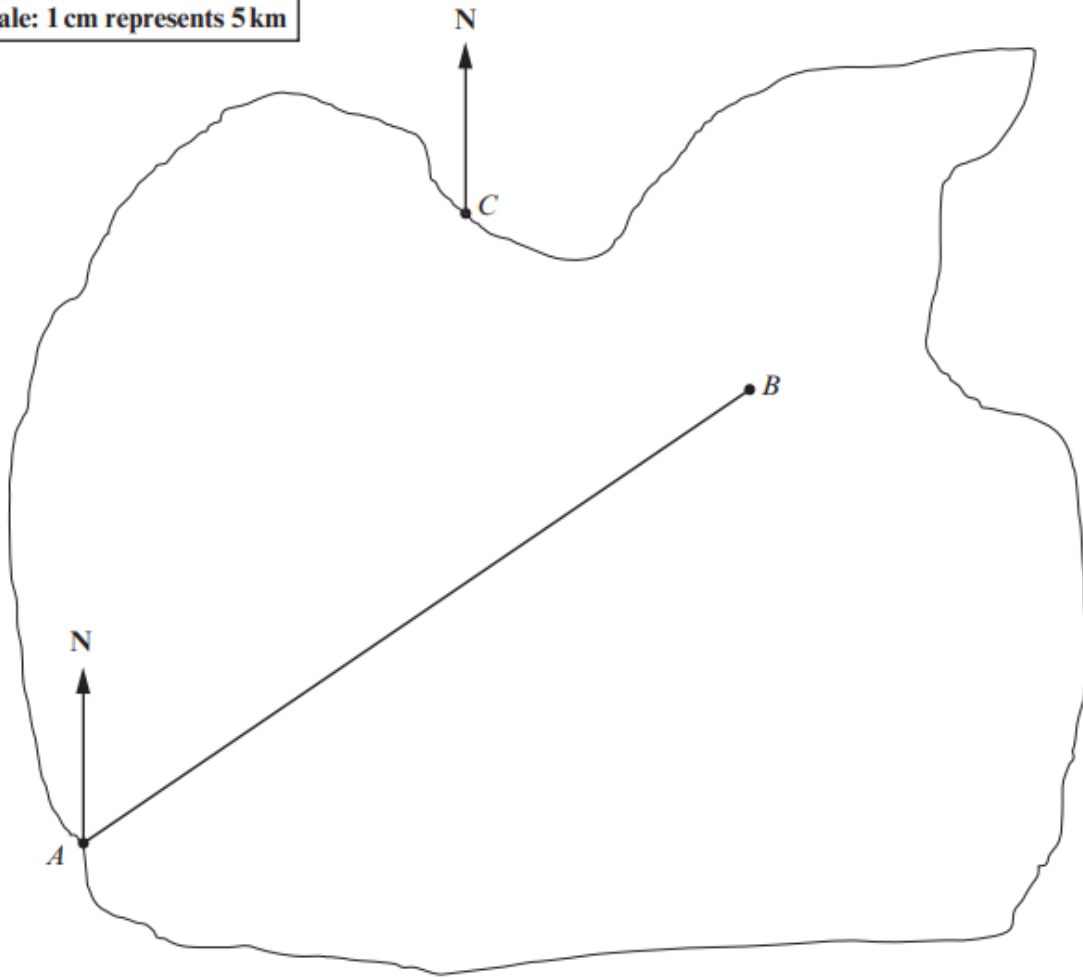
MATHSDIY

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° . Plot the point D on the above map.

.....

[2]

2.

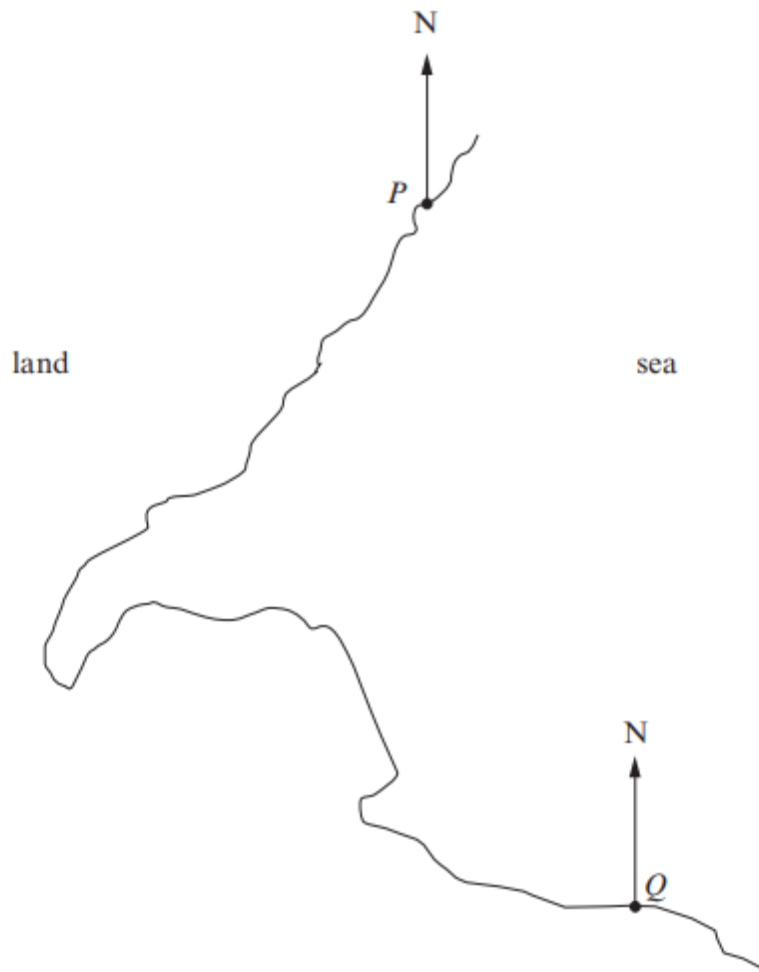
A ship is on a bearing of 215° from Holyhead and on a bearing of 324° from Cardigan. By drawing suitable lines, mark the position of the ship as C.

[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° from P and on a bearing of 021° 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° from Fishguard and 330° from Aberaeron.

How far is the ship from Aberystwyth?

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

[4]



.....

.....

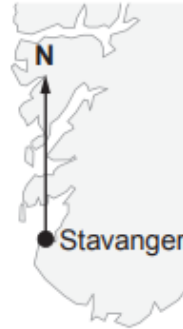
Distance of the ship from Aberystwyth =

5.

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

A ship is on a bearing of 035° from Aberdeen in Scotland and on a bearing of 290° 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° from *A* and on a bearing of 219° from *B*.
Plot the position of the monument and mark it *M*.

[3]