

Higher Numeracy Nov 2018 P1 Q1a

- (a) Mold is on a bearing of 065° from Ruthin.
What is the bearing of Ruthin from Mold?
Circle your answer.

[1]

245°

095°

295°

125°

315°

Higher Maths Summer 2018 P2 Q2c

- (c) Point A is on a bearing of 100° from point B.
What is the bearing of point B from point A?

[1]

260°

100°

280°

180°

80°

Higher Numeracy Summer 2018 P1 Q3a

Sara is carrying out a survey of the three villages, Cwm, Allthir and Gwyndir.
The diagram below shows the positions of the three villages.

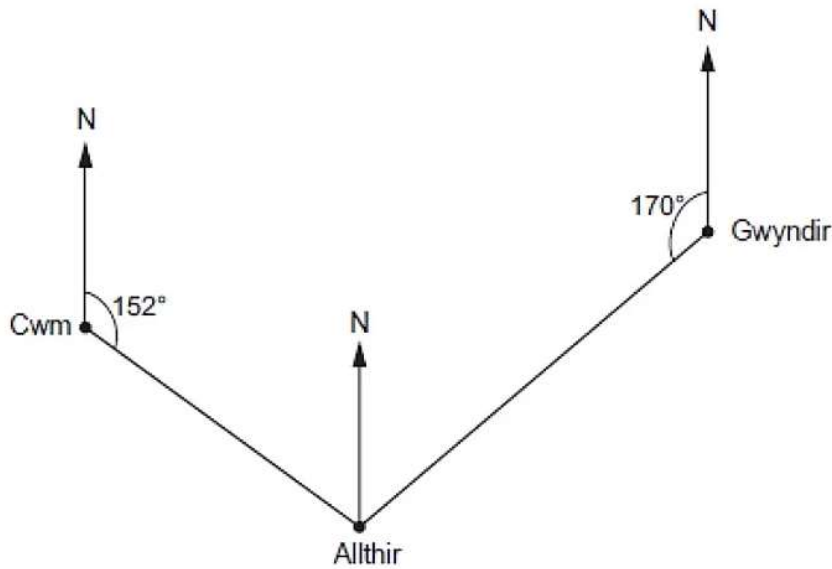


Diagram not drawn to scale

- (a) What is the bearing of Allthir from Gwyndir?
Circle your answer.

[1]

010°

170°

180°

190°

200°

- (b) What is the bearing of Cwm from Allthir?
Circle your answer.

[1]

028°

152°

242°

332°

352°

A magazine article states:

Each year one third of the world's whale population migrates around the North West coast of Scotland.

A Minke whale is sighted by a number of people in a sea area near North Minch.

In attempting to locate the Minke whale, the following details are known.

- The distance from Muir of Ord to Dingwall is 10 miles.
- The whale is
 - equidistant from Stornoway and Ullapool,
 - within 30 miles of Portree,
 - further than 10 miles off shore.

(a) Use the map on the next page to indicate possible locations of the sighting of the Minke whale. You must show all your constructions and working. [5]

(b) Complete the following sentence to give the range of possible bearings of the Minke whale from Stornoway. [2]

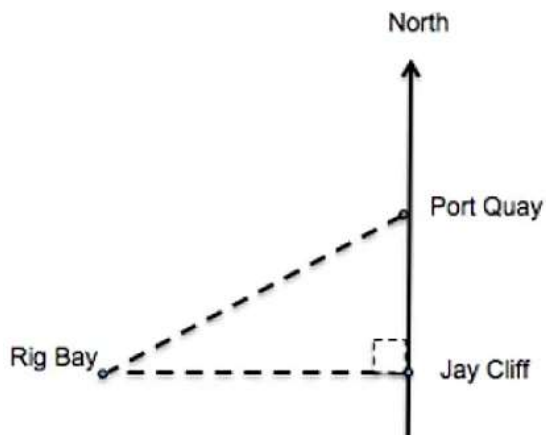
The bearing of the Minke whale from Stornoway is between

..... ° and °.



Higher Numeracy Sam 1 P2_Q5

The diagram shows the route a dolphin swam from Port Quay to Rig Bay and then to Jay Cliff.



Rig Bay is on a bearing of 232° from Port Quay.
The distance from Port Quay to Rig Bay is 3.2 km.

[5]

Higher Numeracy Nov_ 2017 P2 Q6

The diagram below shows the locations of the ports of Lindat, Molk and Nuir.
Lindat is due south of Nuir, and Nuir is due west of Molk.

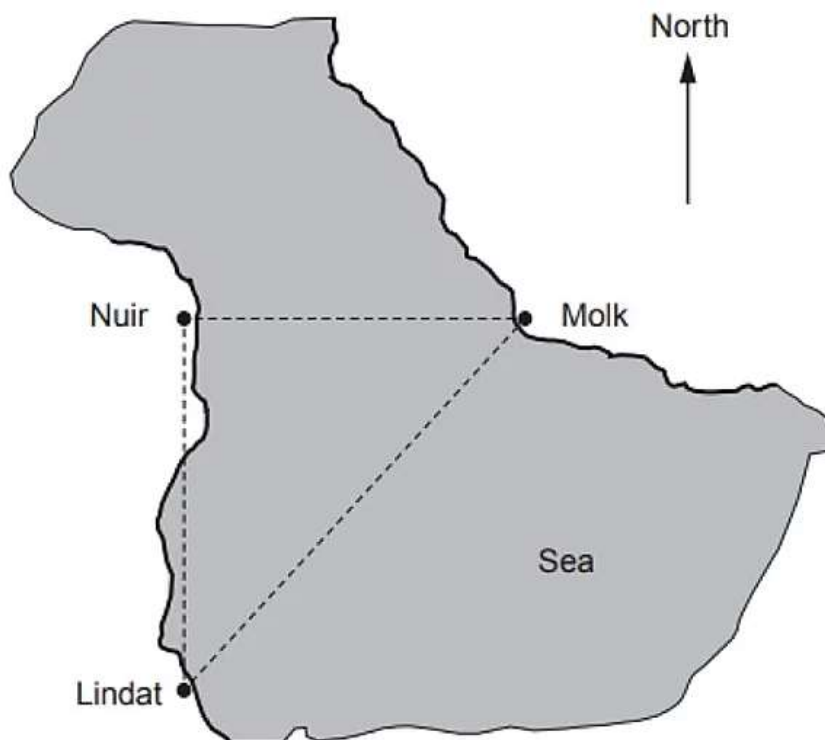


Diagram not drawn to scale

Agnetha lives in Molk.
She travels from Molk to Lindat by ship.

- Lindat is 24 km due south of Nuir.
- The ship sails directly to Lindat on a bearing of 211° .
- The ship has an average speed of 20 km/h.
- The ship leaves at 11:45 a.m.

Calculate Agnetha's arrival time in Lindat.

[7]

Higher Numeracy Nov 2018 P2 Q8b

Heledd has been given the following instructions for her voyage:

- From port *A*, sail 200 km due south to port *B*.
- From port *B*, sail due east to port *C*.
- From port *C*, sail on a bearing of 318° back to port *A*.

Use the space below to draw a sketch of the ship's voyage.



Calculate the distance from port *C* directly back to port *A*.

[4]