

Intermediate Maths Nov 2016 P2 Q2c

- (c) Huw is facing North.
 He turns **clockwise** until he is facing West.
 He has turned through an angle of

270° 3° 90° 0.75° 9° [1]

Intermediate Maths Nov 2017 P2 Q4

- (a) How would the direction **due west** be written as a three-figure bearing?
 Circle your answer.

[1]

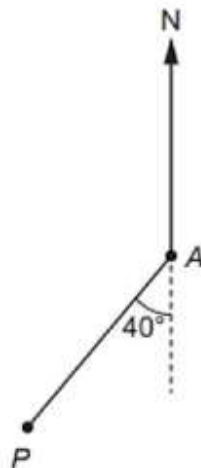
360° 180° 090° 270° 000°

- (b) There are 360° in a full turn.
 A pointer facing **due south** is spun clockwise through $3\frac{3}{4}$ full turns.
 In which direction will the pointer now face?
 Circle your answer.

[1]

north south west east none of these directions

- (c)



What is the bearing of point *P* from point *A*?
 Circle your answer.

[1]

220° 040° 140° 320° 230°

Intermediate Numeracy Nov 2018 P1 Q6a,b

(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°
-
-

(b) Rhyl is on a bearing of 330° from Ruthin.
What is the bearing of Ruthin from Rhyl?
Circle your answer.

[1]

- 105° 030° 150° 075° 350°
-

Intermediate Numeracy Sam 2 P2 Q7a

7. A construction company is working on plans to lay a new gas pipeline.
The gas pipeline is to run from Abermor to Brentor to Cantefore then continue on to another town.

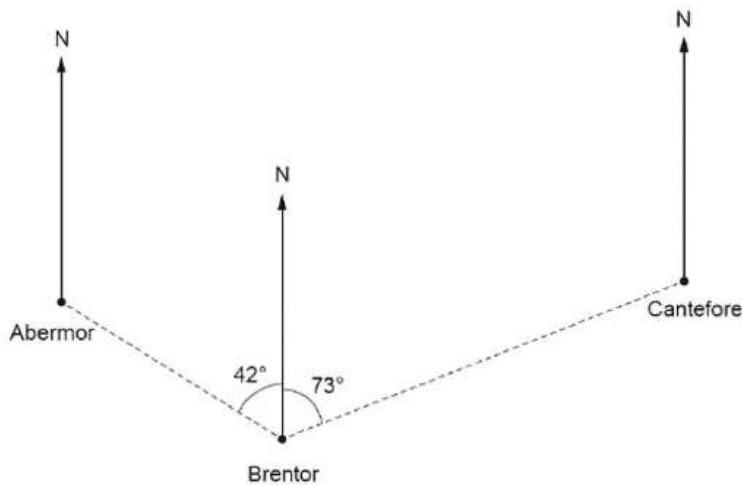


Diagram not drawn to scale

(a) The above diagram shows the section of gas pipeline from Abermor to Cantefore.

(i) The bearing of Cantefore from Brentor is

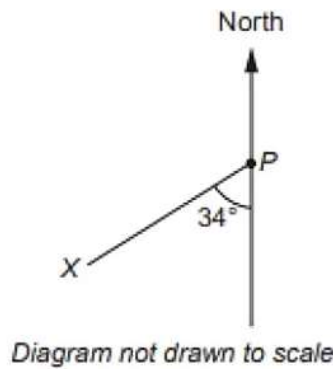
- 073° 107° 163° 253° 287°

(ii) Write down the bearing of Abermor from Brentor.

[3]

Intermediate Maths Nov 2018 P1 Q7

(a)

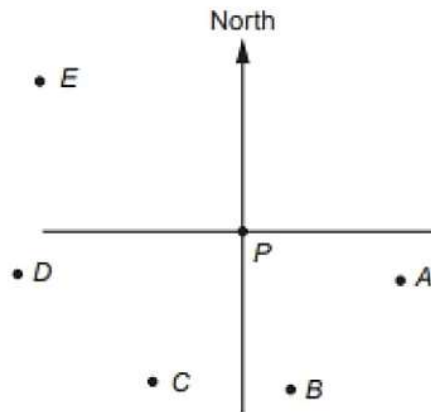


What is the bearing of X from point P?
Circle the correct answer.

[1]

- 146° 326° 214° 034° 234°

(b) The diagram below shows 6 points on a map. The diagram is drawn to scale.



(i) A ship sails from point P on a bearing of 107° .
It sails towards one of the five points A, B, C, D or E.
Which of the five points is the ship sailing towards?
Circle the correct answer.

[1]

- A B C D E

(ii) A second ship sails from point P for a number of miles on a bearing of 070° .
It then changes direction and sails on a bearing of 270° .
It is possible for the ship to reach **only one** of the five points A, B, C, D or E.
Which point can the ship reach?
Circle the correct answer.

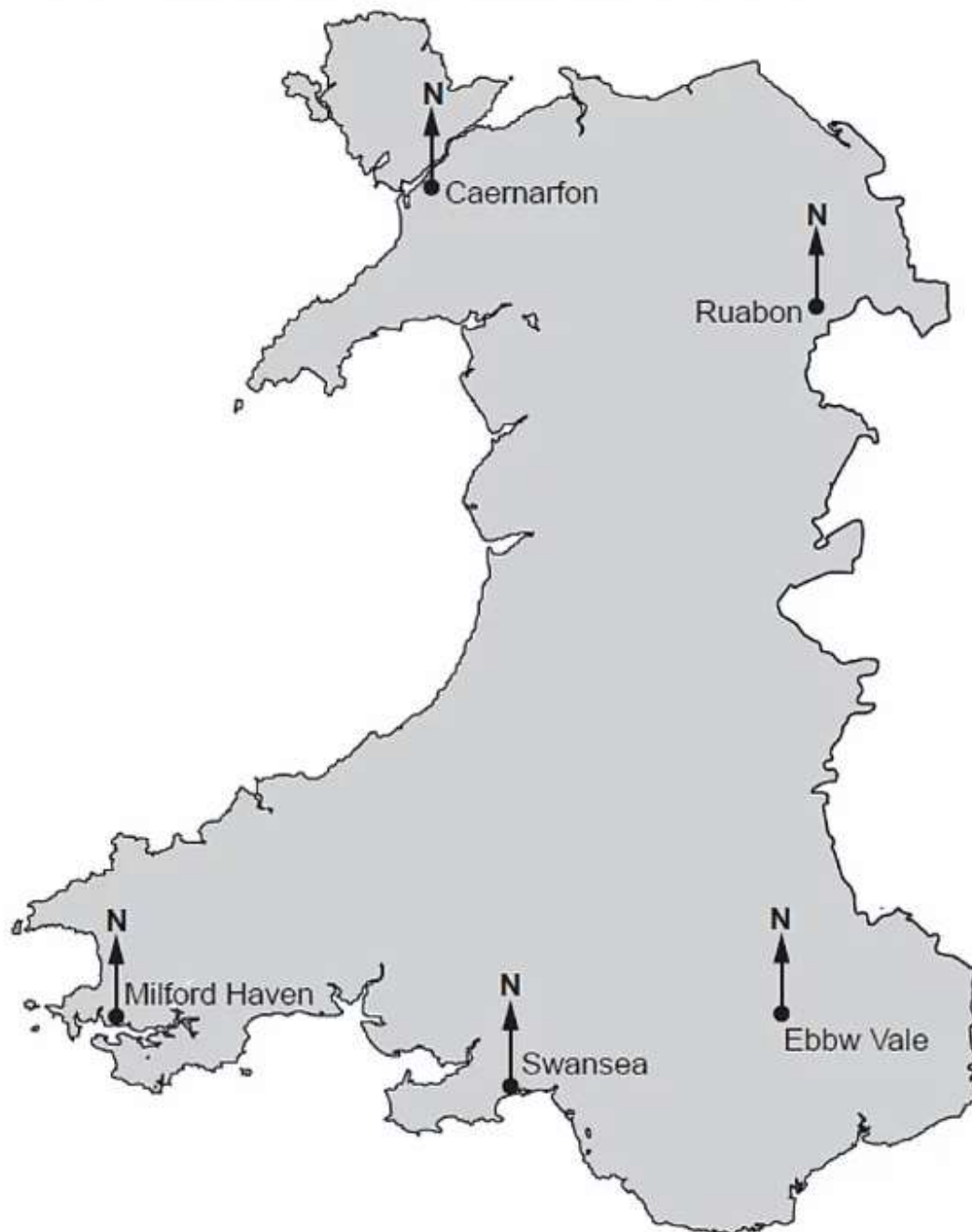
[1]

- A B C D E

Intermediate Numeracy Summer 2019 P1 Q8a

A helicopter pilot is planning a route from Milford Haven to Ruabon and then on to Swansea.

(a) To plan the flights, the pilot needs to find the bearings from a map.



- (i) Find the bearing of Ruabon from Milford Haven. [1]
- (ii) Find the bearing of Swansea from Ruabon. [1]

Intermediate Numeracy Sample 1 P1 Q8

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.

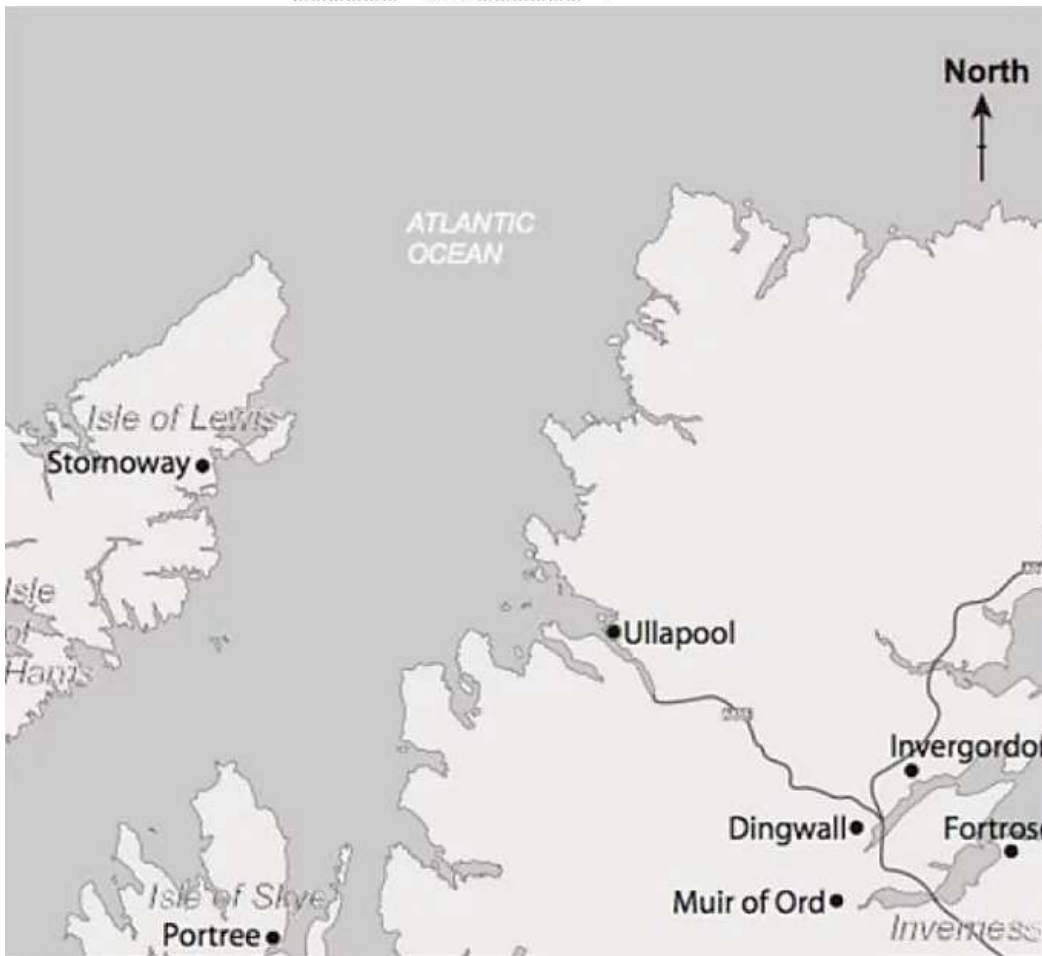
- The distance from Muir of Ord to Dingwall is 10 miles.
- The whale is
 - equidistant from Stornoway and Ullapool,
 - within 30 miles of Portree,
 - further than 10 miles off shore.

(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 °.



Intermediate Numeracy Summer 2018 P1 Q10a

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

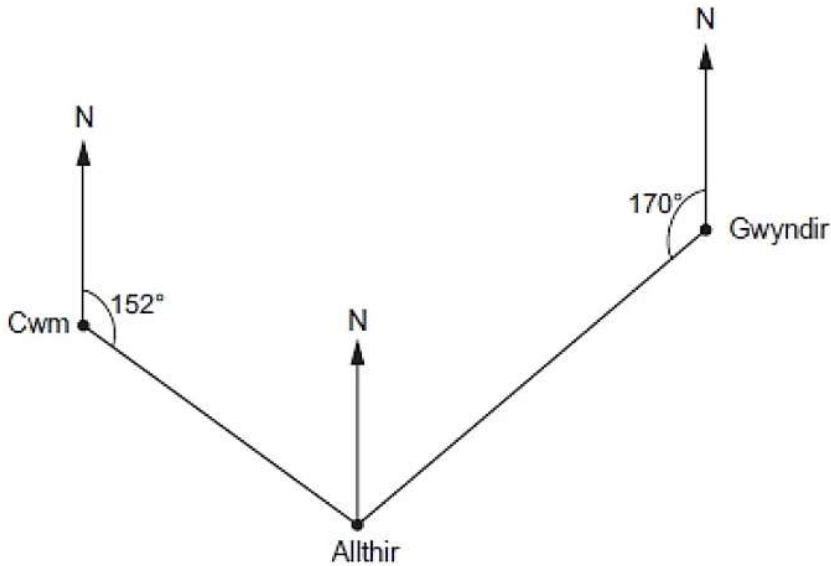


Diagram not drawn to scale

- (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°

Intermediate Maths Summer 2018 P2 Q12c

- (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°

Intermediate Numeracy Sam 2 P1 Q11b

11. The three Welsh castles, shown below, are all within walking distance of each other.

White Castle



Skenfrith Castle



Grosmont Castle



These castles are shown on the map below.
The black lines represent the **footpaths** between the castles.



(b) Complete the following statements.

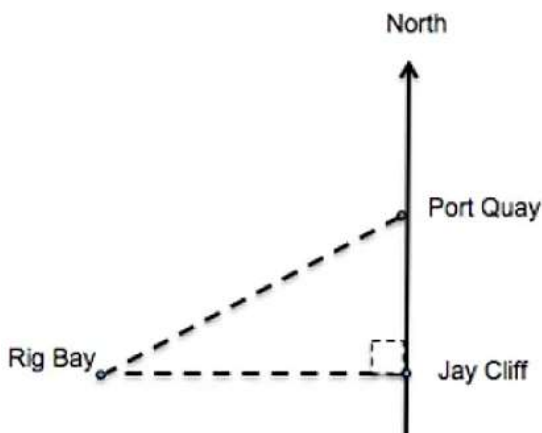
The bearing of Skenfrith Castle from White Castle is °

The bearing of White Castle from Grosmont Castle is °

[2]

Intermediate Numeracy Sam 1 P2_Q14

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.
Calculate how far the dolphin swam altogether

[5]