

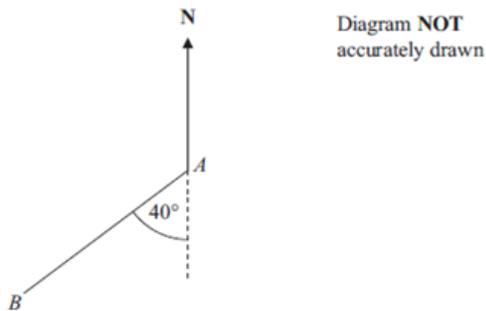
"Full Coverage": Bearings

This worksheet is designed to cover one question of each type seen in past papers, for each GCSE Higher Tier topic. This worksheet was automatically generated by the DrFrostMaths Homework Platform: students can practice this set of questions interactively by going to www.drfrostmaths.com/homework, logging on, *Practise* → *Past Papers/Worksheets* (or *Library* → *Past/Past Papers* for teachers), and using the 'Revision' tab.

Question 1

Categorisation: Understand that a bearing is the angle measured clockwise from North.

[Edexcel GCSE June2010-2F Q17]



Work out the bearing of B from A .

..... °

Question 2

Categorisation: Know that if we swap "bearing of A from B" with "bearing of B from A", we add or subtract 180° from the bearing.

[Edexcel IGCSE June2010-4H Q2b Edited]

C is a town.

The bearing of C from A is 050°

Find the bearing of A from C.

..... °

Question 3

Categorisation: Determine bearings using the sum or difference of other bearings.

[Edexcel IGCSE Jan2014(R)-4H Q10b]

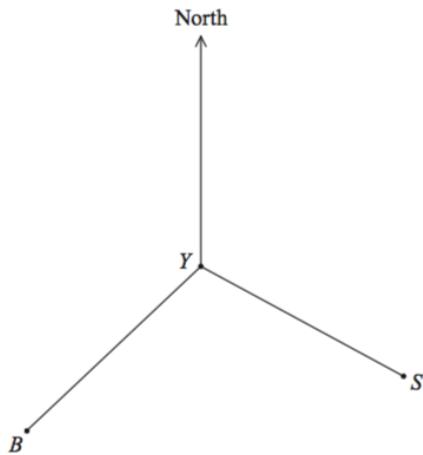


Diagram NOT accurately drawn

The diagram shows the positions of a yacht Y , a ship S and a beacon B .

The bearing of B from Y is 228°

The bearing of S from Y is 118°

Find the size of the angle BYS .

..... °

Question 4

Categorisation: Use bearings in the context of trigonometry.

[Edexcel IGCSE Jan2017(R)-4H Q9b Edited]

The diagram shows the positions of two towns, A and B .

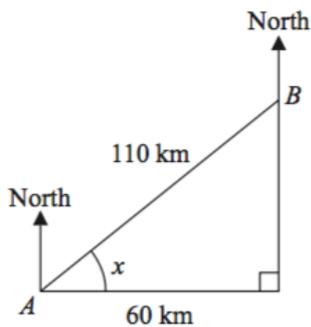


Diagram NOT accurately drawn

The distance from A to B is 110 km. B is 60 km east of A .

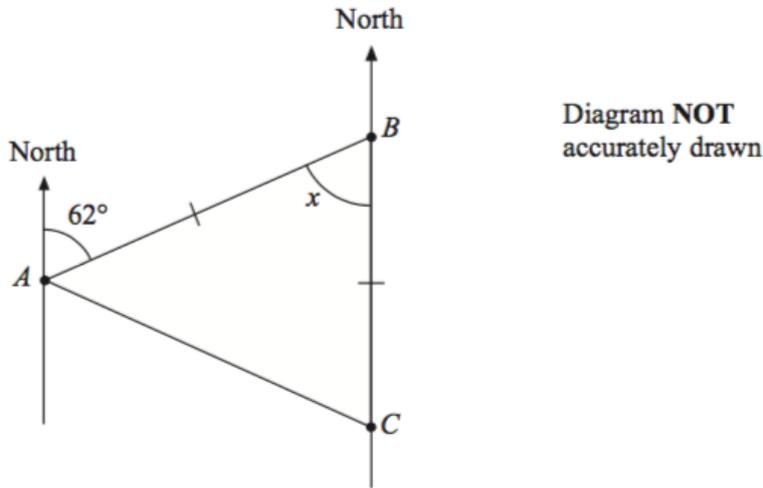
Work out the bearing of B from A . Give your answer correct to the nearest degree.

..... °

Question 5

Categorisation: Use angle laws to determine a bearing.

[Edexcel IGCSE Nov2009-4H Q3b]



The bearing of B from A is 062°
 C is due south of B. $AB = CB$. Work out the bearing of C from A.

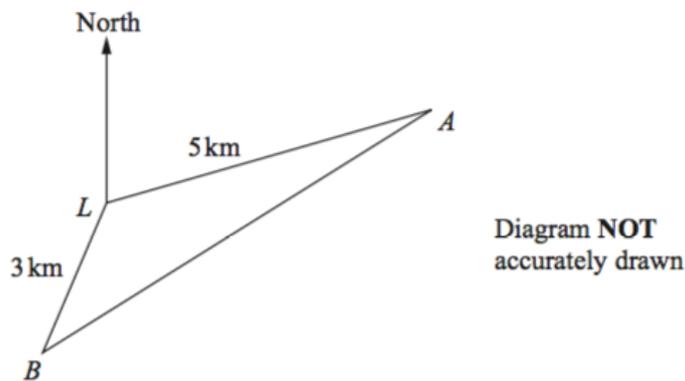
.....^o

Question 6

Categorisation: Determine a bearing or distance using sine/cosine rules.

[Edexcel IGCSE Nov2009-3H Q22]

The diagram shows the positions of two ships, A and B, and a lighthouse L.



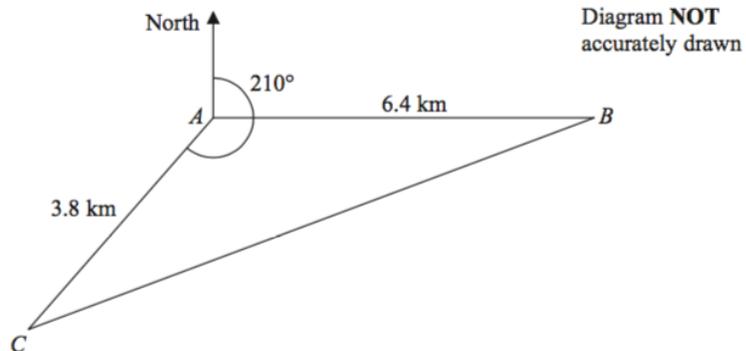
Ship A is 5km from L on a bearing of 070° from L. Ship B is 3km from L on a bearing of 210° from L. Calculate the distance between ship A and ship B. Give your answer correct to 3 significant figures.

..... km

Question 7

Categorisation: As above.

[Edexcel IGCSE May2014(R)-4H Q19 Edited]



A, B and C are 3 villages. B is 6.4 km due east of A.

C is 3.8 km from A on a bearing of 210°

Calculate the bearing of B from C. Give your answer correct to the nearest degree.

..... °

Answers

Question 1

220°

Question 2

230°

Question 3

110°

Question 4

33°

Question 5

121°

Question 6

7.55 km

Question 7

068°