4.16 Bearings: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write down the bearing of B from A.
A and B are two points. The direction from A to B is due east.

(Total for Question 1 is 1 mark)

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2 A boat sails from harbour H to point P on a bearing of 045 degrees.
Work out the bearing of H from P.

(Total for Question 2 is 2 marks)

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3 A bearing of 315 degrees represents which compass direction?

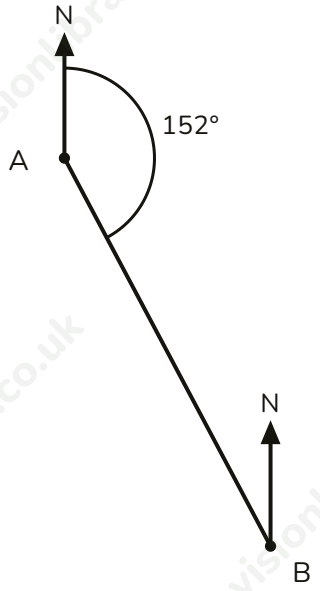
- ☐ A) North-East
- ☐ B) South-West
- ☐ C) North-West
- ☐ D) South-East

(Total for Question 3 is 1 mark)

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4 The bearing of B from A is 152.
Show that the bearing of A from B is 332 degrees.

Diagram NOT accurately drawn

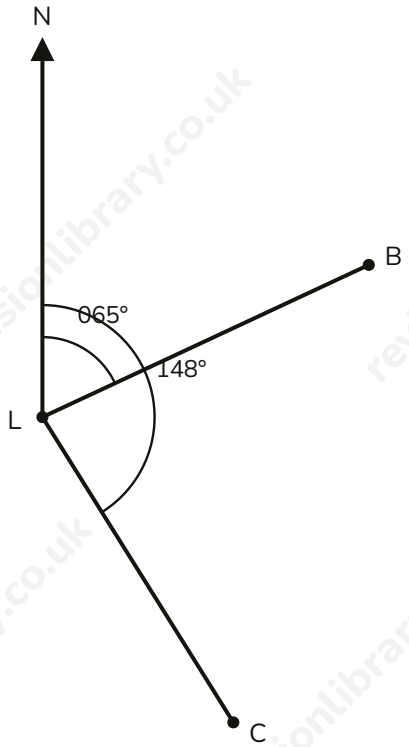


(Total for Question 4 is 3 marks)

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5 From a lighthouse L, the bearing of boat B is 065. The bearing of boat C is 148.
Calculate angle BLC.

Diagram NOT accurately drawn



(Total for Question 5 is 2 marks)

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Mark scheme · 4.16 Bearings: 10-minute Pack

Question 1

090 degrees cao	**B1**

Answer: 090 degrees

Question 2

since the bearing H->P is less than 180, add 180: 045 + 180	**M1**
225 degrees cao	**A1**

Answer: 225 degrees

Question 3

C selected	**B1**

Answer: C) North-West

Question 4

correct use of angle facts with the parallel North lines (e.g. states the alternate angle at B equal to 152, oe)	**B1**
180 + 152 oe	**M1**
332 cso	**A1**

Answer: 332

Question 5

148 - 65 oe	**M1**
83 degrees cao	**A1**

Answer: 83 degrees

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