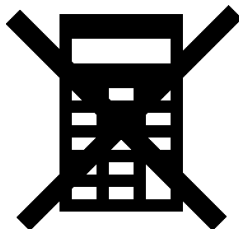AQA, OCR, Edexcel
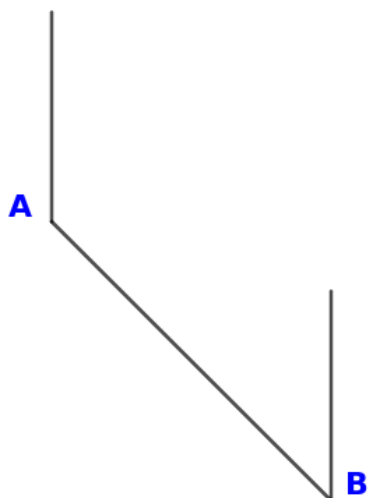
GCSE

GCSE Maths

Bearings

Name:

Guidance

1. Read each question carefully.
2. Don't spend too long on each question.
3. Attempt every question.
4. Always show your workings.

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1. By measuring the angles below, state the bearings of:

A from B = ………………..

B from A = ………………..

(2 marks)

2. From the diagram below, state the bearings of:

60°

1cm = 2km

B from A = ………………..

A from B = ………………..

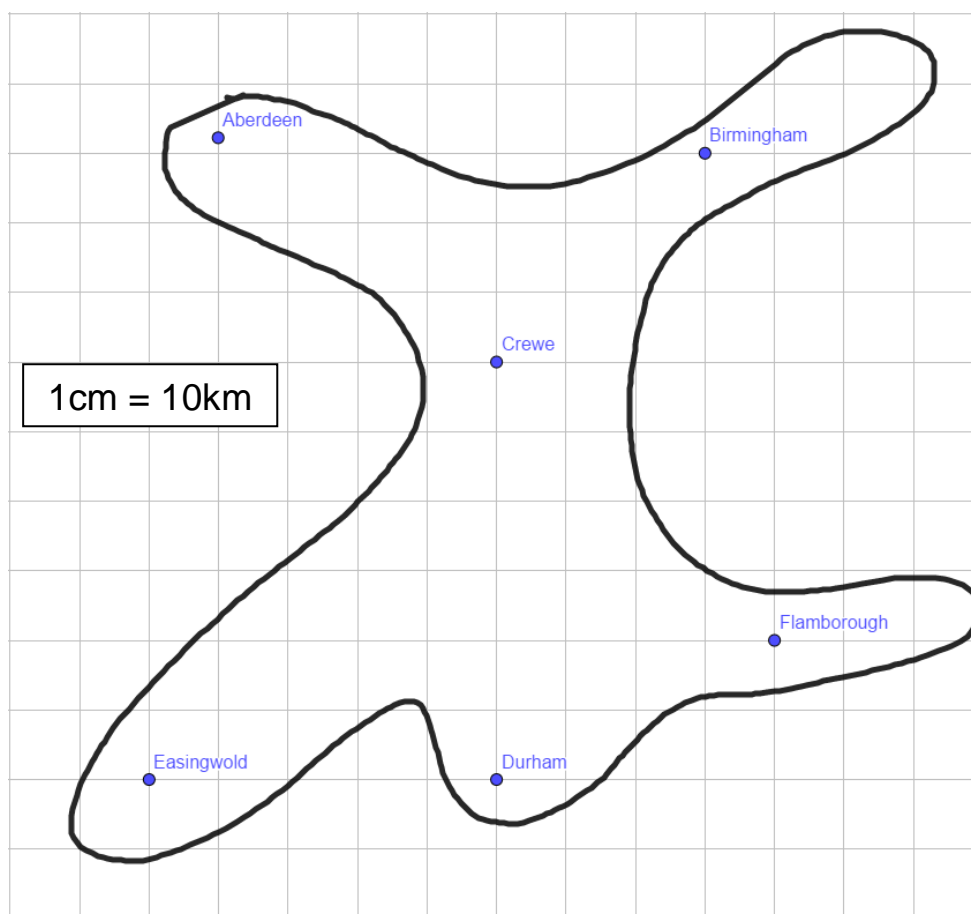What is the distance between A and B? …………………………………………….

(3 marks)

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3. The location C is on a bearing of 140° from A.
   The bearing of C from B is 250°.

   Find the location C and mark it on the diagram below.

   A

   B

   (3 marks)

4. A map with a scale is given below. Give directions using bearings and the distances for the following journeys.

1cm = 10km

Aberdeen to Flamborough

……

Birmingham to Crewe

……

Durham to Crewe, then on to Easingwold

……

……

(4 marks)

5. Starting at the point A, Freya makes a journey as follows:

    8km south-east to B
    4km south to C
    6km north-west to D

    Depict her journey on the diagram below.

    1cm = 1km

    A

    Freya wants to return to A. What is the bearing of A from D?

    ………………………………………………………………………………………

    ………………………………………………………………………………………

    (4 marks, 1 mark)

6. Draw the points C and D on the diagram below, given the following points and information.

   The bearing of C from A is 190, and C is 5km from A.
   The bearing of D from B is 240, and D is 7km from A.

A

| 1cm = 1km |

B

What is the bearing of C from D, and how far apart are they?

(5 marks)

7. George needs to take the route as follows.

   6km on a bearing of 080 from A to B
   12km on a bearing of 160 from B to C
   The scale is 1cm = 1.5km

   However, George uses an incorrect scale of 1cm = 1km and ends up at D.

   What bearing and distance does he need to take to end up at his original destination of C?

A

Bearing = …………… , Distance = ……………..

(6 marks)