



BRAINIACS OLYMPIAD

GRADES 7-8

GEOGRAPHY SAMPLE PAPER (PRACTICAL PART)



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GEOGRAPHY FIELDWORK

Grade: 7-8

Location: Exeter city

Outdoor: 60 minutes – **50 marks**

Indoor: 60 minutes – **50 marks**

Total Marks: 100 marks

PART A – OUTDOOR FIELDWORK (50 MARKS)

I. Scale and Distance (20 marks)

1. Draw a sketch map of the selected area (a fragment of the City of Exeter) using a scale of your choice, including:

- At least 5 objects
- North arrow
- Graphic scale (5 marks)

2. Determine the verbal scale of the chosen scale. (2 marks)

Answer: _____

3. Measure real distance between two objects and convert to map distance. (5 marks)

Object A: _____ Object B: _____

Real Distance: _____ Map Distance: _____

4. Measure a road section using map and **curvimeter**. Calculate real length. (5 marks)

Measured Length: _____

5. Measure length and width of area. Calculate area in m². (3 marks)

Length: _____ Width: _____ Area: _____

II. Direction and Bearings (15 marks)

1. Determine cardinal direction of main road. (2 marks)

Answer: _____

2. Mark Point A on the map and determine the azimuth to the nearest visible landmark (Point B). Record the azimuth in degrees. (5 marks)

Azimuth: _____

3. Calculate reverse azimuth. (4 marks)

Reverse Azimuth: _____

4. Describe direction using compass terms. (4 marks)

Answer: _____

III. Contours and Relief (15 marks)

1. Describe type of relief observed. (5 marks)

Answer: _____

2. Identify and describe steep slopes. (5 marks)

Answer: _____

3. Suggest suitable construction site and mark it on the map. (5 marks)

Answer: _____

PART B – INDOOR FIELDWORK (50 MARKS)

I. Scale and Distance. Study Fig. 1, which shows a fragment of a topographic map at a scale of 1:25,000 of the city of Exeter. (20 marks)

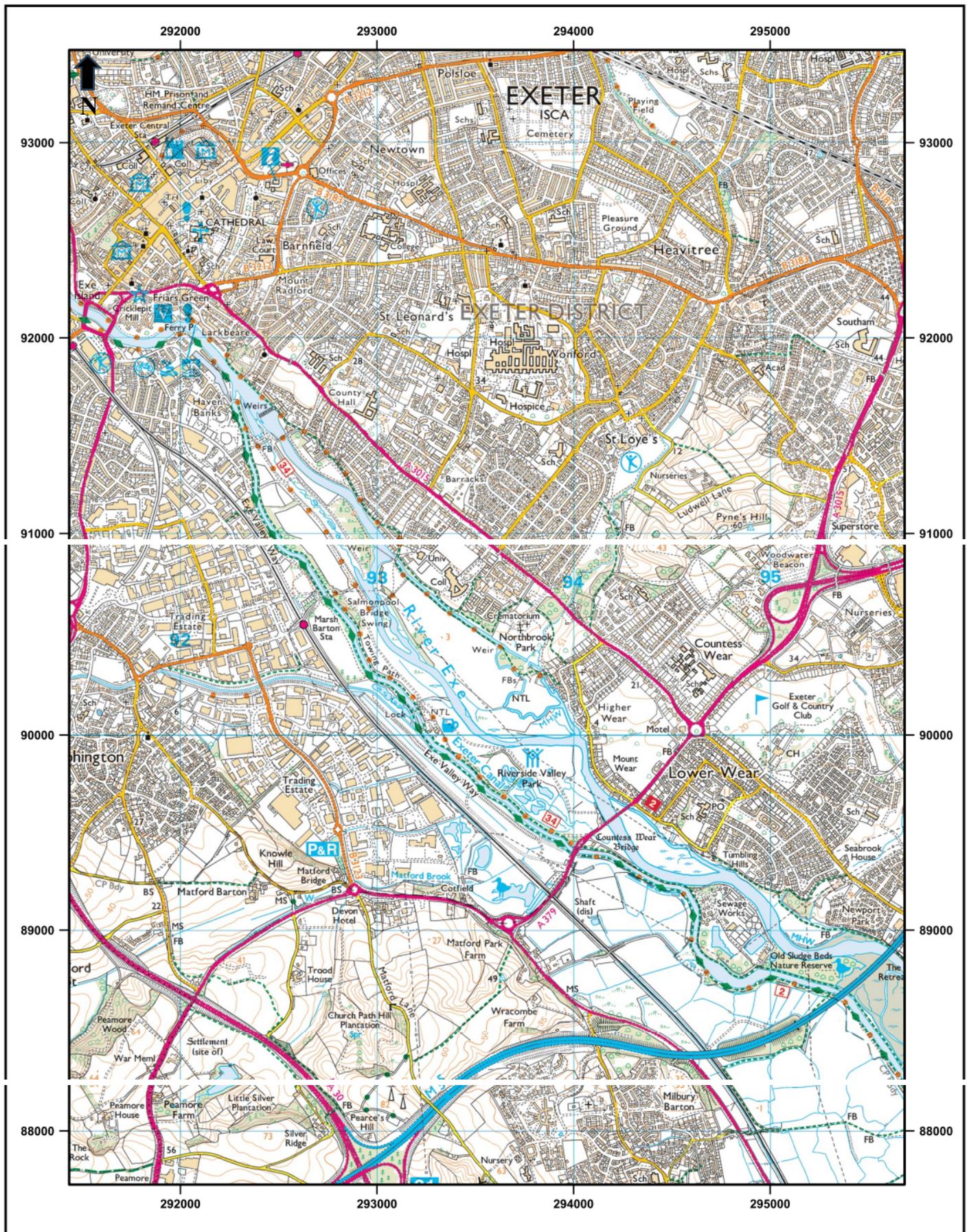


Fig. 1

Use the measurements and observations you collected during the **Outdoor Investigation** to answer the following questions.

1. Determine the verbal scale of the map. Then compare it with the scale you selected for your sketch map. Explain the differences.

Answer: _____
_____ (3)

2. How many kilometers on the ground are represented by 8 cm on this map (scale 1:25,000) and 8 cm on your sketch map? Explain why the answers are different.

Answer: _____
_____ (4)

3. By measuring the total length and width of the selected area, determine its area in square centimeters on your sketch map and on the 1:25,000 map. Explain why the values may differ.

Answer: _____

_____ (5)

4. Using the map scale, determine the actual area of the selected territory on the ground in square kilometers. Do this separately for:

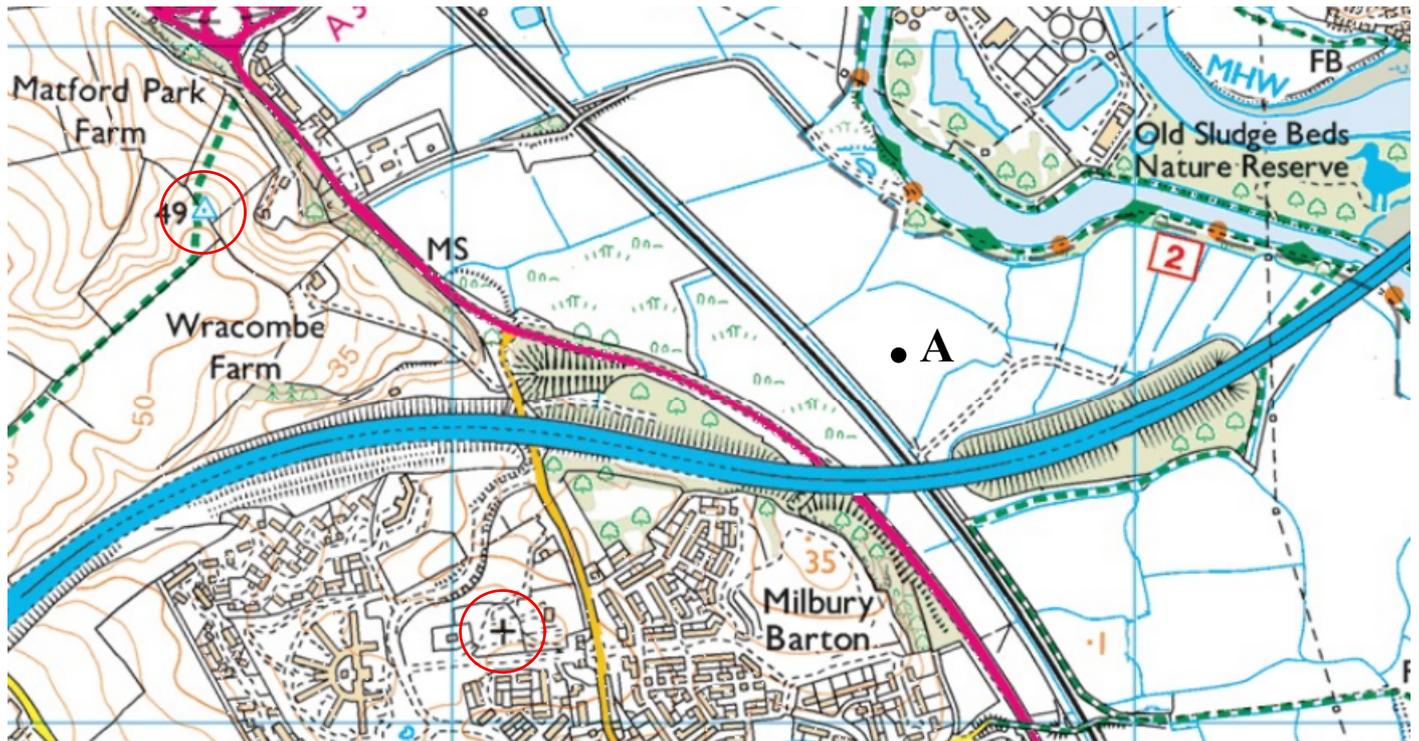
Your sketch map (chosen scale) _____

_____ (4)

The 1:25,000 map _____

_____ (4)

II. Direction and Bearings. Study Figure 2, in which the locations of the triangulation pillar and the Place of Worship are marked with red circles. **(15 marks)**



- △ Triangulation pillar
- + Place of worship

Fig. 2

1. Which cardinal direction does the top of the map point to?

Answer: _____ (1)

2. From point A, in which direction is the triangulation pillar (marked with a red circle) located? (N, S, E, W, NE, NW, SE, SW)

Answer: _____
 _____ (2)

3. Using a protractor, determine the azimuth (in degrees) to the triangulation pillar from point A.

Answer: _____
 _____ (3)

4. Determine the reverse azimuth from the triangulation pillar to point A and state the direction that corresponds to this azimuth.

Answer: _____
 _____ (4)

5. Using a protractor, determine the azimuth (in degrees) of the Place of Worship (also marked with a red circle) relative to the triangulation pillar. Then calculate the difference between this azimuth and the azimuth of point A relative to the triangulation pillar.

Answer: _____
_____ (5)

III. Contours and Relief. Study Figure 3, where the terrain is shown using contour lines. **(15 marks)**



Fig. 3

1. Based on the contour lines shown in Fig. 3, describe the type of relief represented in the mapped area. Compare it with the relief of the area you investigated and explain the similarities and differences.

Answer: _____

_____ (2)

2. What are the contour lines called that connect points of equal elevation?

Answer: _____

_____ (2)

3. What is the elevation (in meters) of the highest point marked on this map?

Answer: _____

_____ (2)

