

Coordinates

Name:

Date:

INQUIRY

GPS uses coordinates to pinpoint any location on Earth. Nanjing is at approximately (32N, 118.8E). How do coordinates work?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Coordinates	An ordered pair (x, y) locating a point.
Midpoint	The point exactly halfway between two points.

Part A — Plotting & Reading

1. Plot these points and connect in order: A(1,2), B(4,2), C(5,5), D(2,5). Name the shape. [3 marks]

Part B — Midpoints

2. Find the midpoint of: (a) (2,4) and (8,10) (b) (-3,5) and (7,1). [4 marks]

Show your working:

Part C — Application

3. NIS is at coordinate (3,5) on a city grid. The nearest metro is at (7,2). Find the midpoint (where you might meet a friend halfway). [2 marks]

Show your working: