Plot India's Outline on Square Graph Paper: Coordinate Mapping

Ordinary topic reference / separately checked pixels

INDIA / simplified plotting reference / Natural Earth 1:110m



X = longitude - 66; Y = latitude - 4. One chosen square is one degree in this schematic coordinate plot. Practice markers A(12,18), B(14,12), C(10,24) are not named cities. The numerical question polygons are separate toy exercises.

Public-domain Natural Earth data; small-scale teaching approximation, not an authoritative national-boundary map.

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Original worked example / unchanged complete key

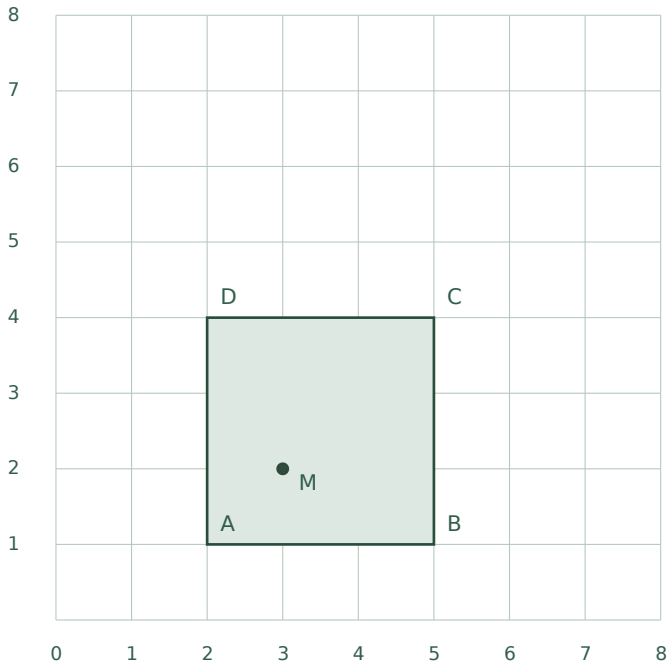
Prompt: Plot and connect these four simplified coastline points on a square grid: A(2,1), B(5,1), C(5,4), D(2,4). Shade the interior and add a landmark marker at M(3,2). Describe the resulting shape.

Answer: Plot A two right and one up, B five right and one up, C five right and four up, and D two right and four up. Connect A to B to C to D and back to A. The outline is three squares wide and three squares tall: a square, which is also a rectangle. Shade inside the rectangle. Plot M at three right and two up, inside the rectangle, and label it. The marker sits one square right and one square up from A.

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Worked reference / reference

TOY coordinate polygons / not India borders / one grid unit = chosen 10 mm

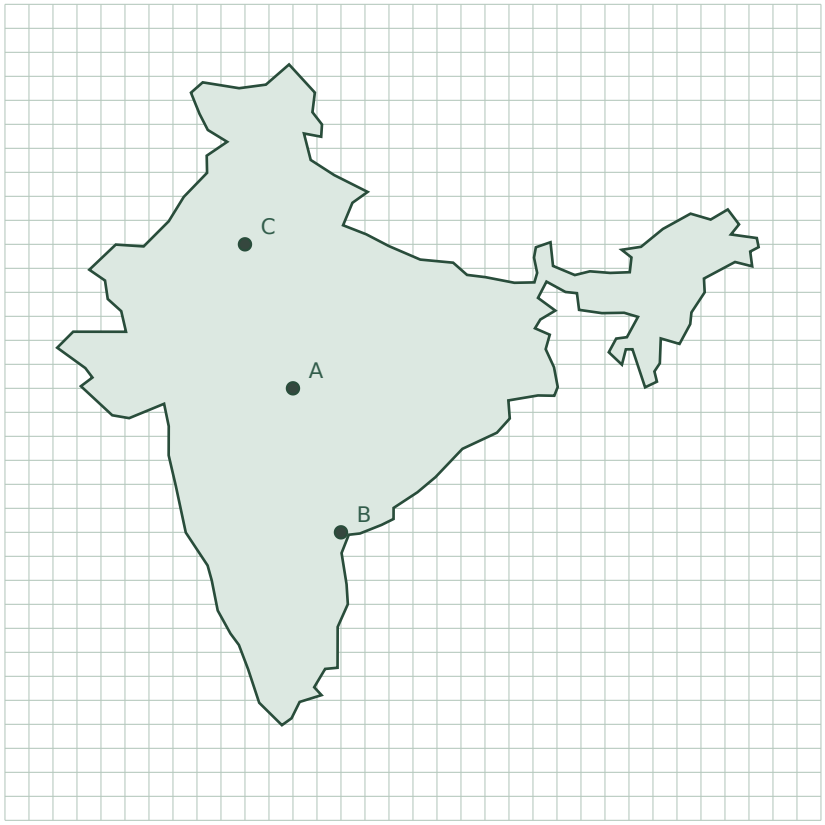


Program plots the literal source order, closes and shades only the polygon interior. Markers are separate from the connected boundary.

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