

LANDSCAPES AND LANDFORMS

Topographic Mapping Skills

Activities created by Lorraine Chaffer, Vice President GTANSW & ACT

These activities are presented as student worksheets in the Appendix that accompanies this edition on the GTA NSW & ACT website.

Refer to Figure 1 to answer the following questions:

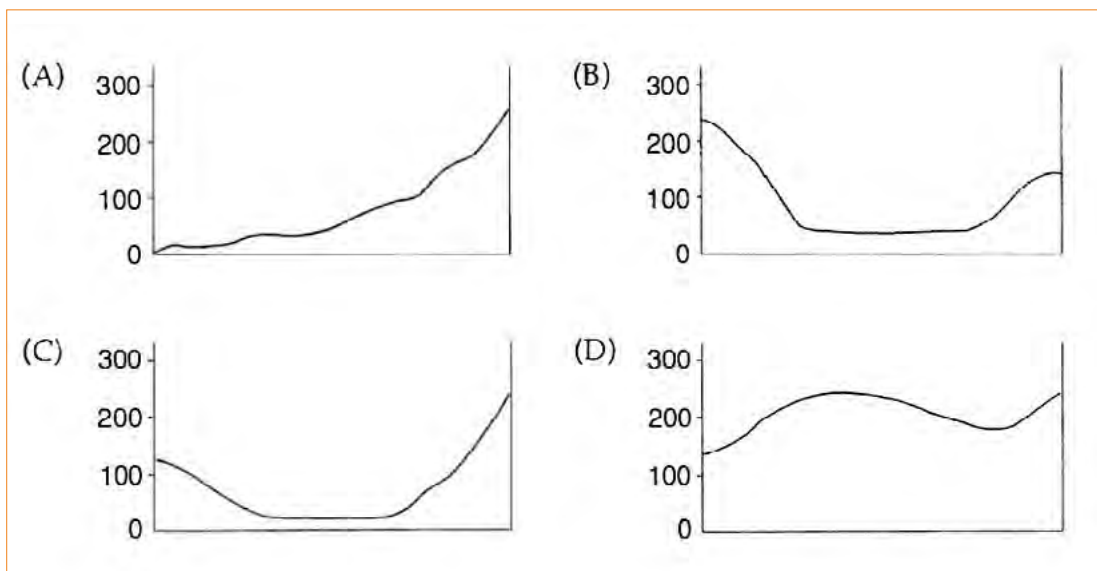
- Use the pattern of contour lines to identify two landforms on the map.
- Give an Area Reference for the shipwreck.
- State the direction of Point A from Point C.
- Determine the bearing of the shipwreck from Point C.
- Calculate the straight-line distance between Point B and Point C.
- Calculate the gradient of the slope between Point A and Point B.
- State the aspect of the slope along A to B.
- Draw a cross section between points Point A and Point B.
- Describe your journey as you walk from A to B to C.

Challenge questions

- Calculate the Vertical Exaggeration of your cross section
- Represent the scale of the map as a ratio.

Refer to Figure 2 Rivertown:

- State the direction of the train station from the bridge.
- Calculate the distance from the northernmost trig station to the bridge.
- Calculate the area of land covered by pine forest.
- Give a grid reference for a location on the map to plant a tree. The tree requires a slope with a NW aspect and a well-drained soil.
- Identify the cross section that best represents the topography travelling south-east from the trig station in AR 2240 to the trig station in AR 2436



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Refer to Figure 3 Lloyds Inlet

- Give a Grid Reference for:
 - the bridge
 - the steepest slope on the map
- What is the straight-line distance between
 - Point A and Point B
 - Point C and Point D
- State the direction from the bridge to Point A
- Compare the direction water flows in Clear Creek and Pine Creek.
- Calculate the gradient between Point C to Point D
- Calculate the approximate area of the lagoon.
- Label the cross section with features located at each arrow.
- Explain why the following locations are unsuited to crop growing – GR 020567 and GR 021562

Refer to Figure 4

Draw connections between the pattern of contour lines with the landform they represent.

Figure 1: Map

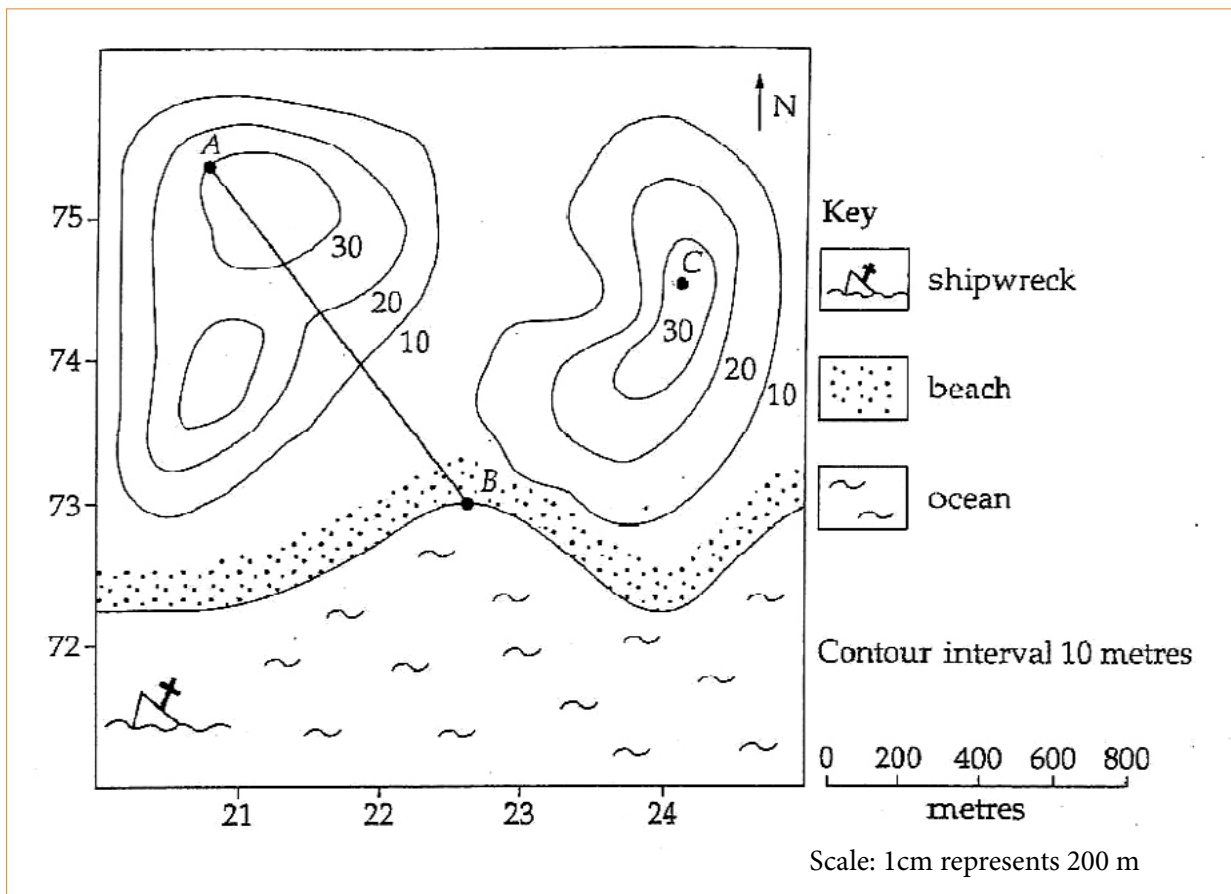


Image source: BOSTES Australian History, Geography, Civics and Citizenship Test.

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Figure 2: Rivertown map

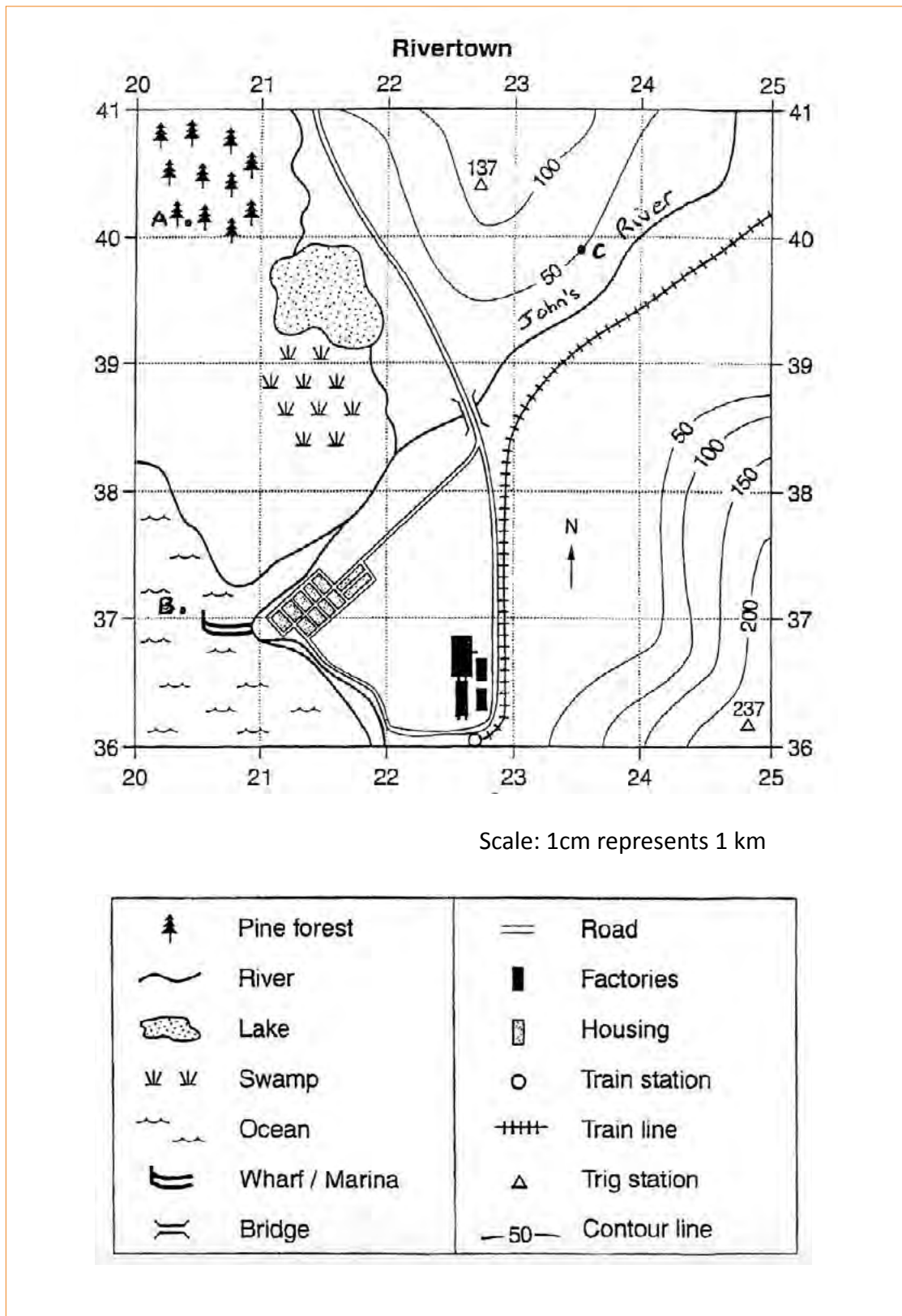


Image source: BOSTES 2001 Australian History, Geography, Civics and Citizenship Test.

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Figure 3: Lloyd's Inlet Map

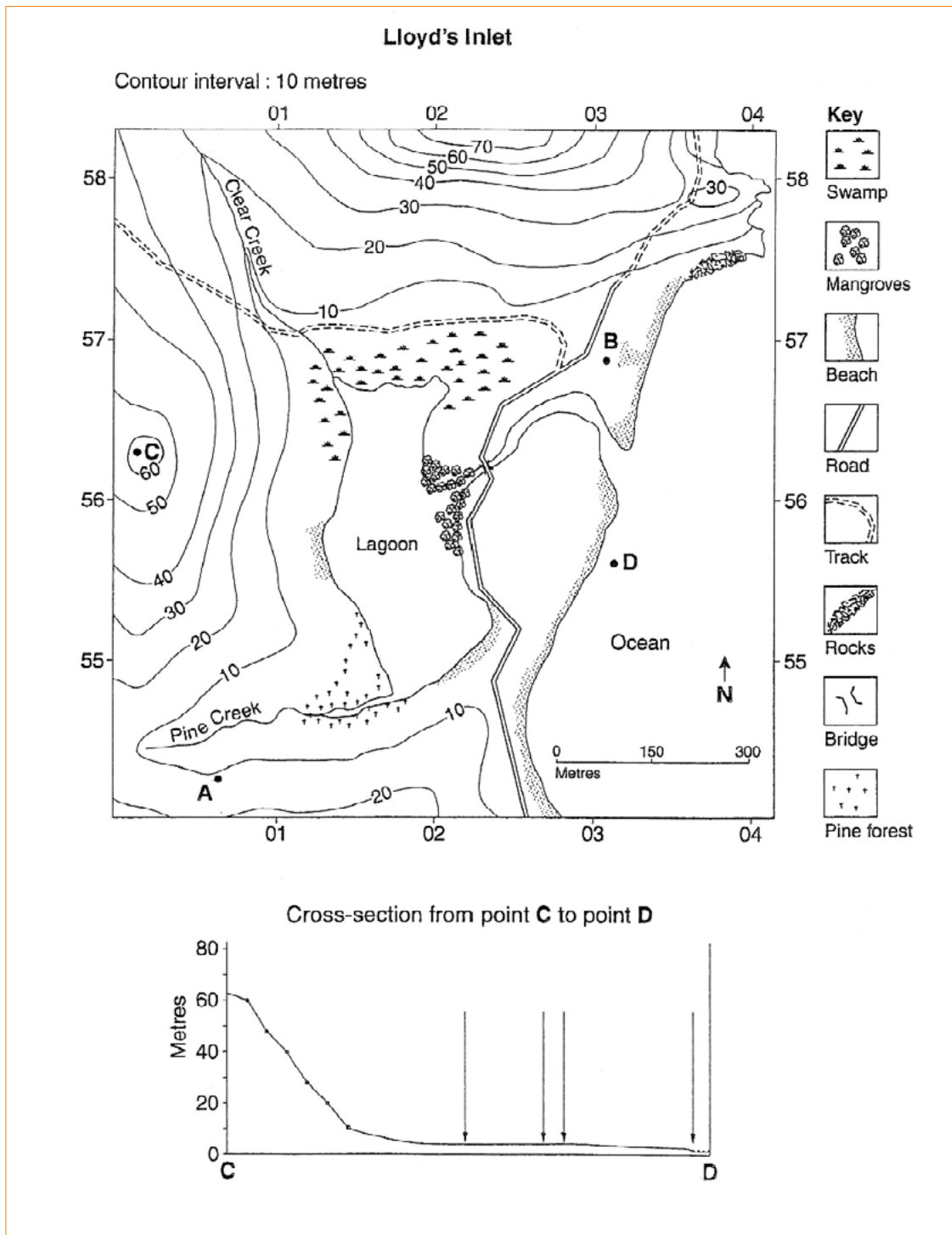
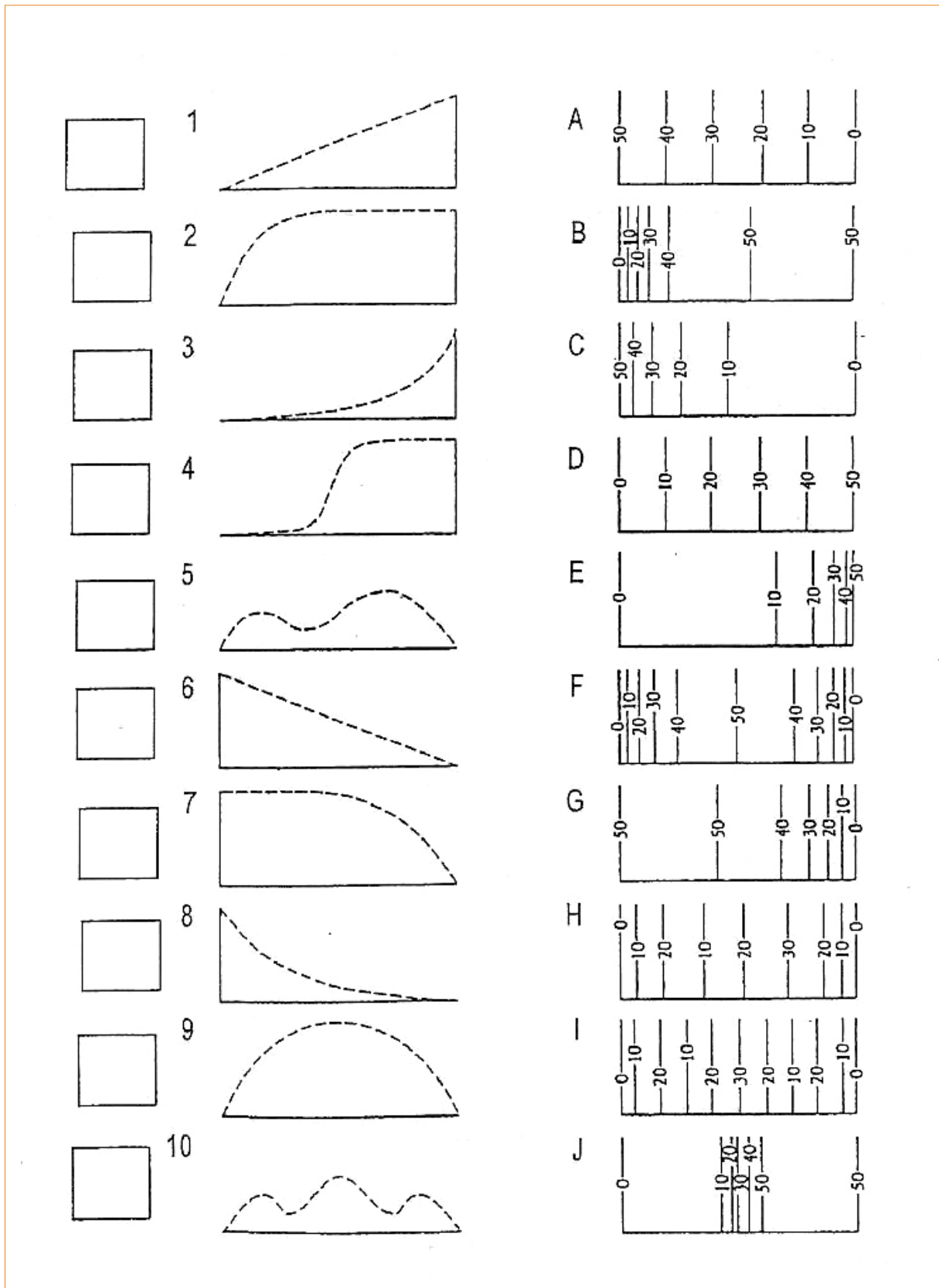


Image source: BOSTES 2003 Australian History, Geography, Civics and Citizenship Test.

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Figure 4: Contour lines



Source: Geographers Toolbox