

Figure 2.8 Points of elevation on Earth's surface are projected onto paper to make a topographic map.

Interpret How many meters high is the highest point on the map?

Topographic Maps

Detailed maps showing the hills and valleys of an area are called topographic maps. Topographic maps show changes in elevation of Earth's surface, as shown in Figure 2.8. They also show moun tains, rivers, forests, and bridges, among other features. Topographic maps use lines, symbols, and colors to represent changes in elevation and features on Earth's surface.

Contour lines Elevation on a topographic map is represented by a contour line. Elevation refers to the distance of a location above or below sea level. A contour line connects points of equa elevation. Because contour lines connect points of equal elevation they never cross. If they did, it would mean that the point where they crossed had two different elevations, which would be impossible.

Contour intervals As Figure 2.8 shows, topographic maps u contour lines to show changes in elevation. The difference in elevati between two side-by-side contour lines is called the contour interv The contour interval is dependent on the terrain.

For mountains, the contour lines might be very close together and the contour interval might be as great as 100 m. This would indicate that the land is steep because there is a large change in e vation between lines. You will learn more about topographic map in the Mapping GeoLab at the end of this chapter.

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If you look at etermine the ele idex contour by idicated on the naps and index nis page.

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Calcula

How can y elevation? of a slope. change in map by the Use the ma tions, and

Analysis

- 1. Determi Point B
- 2. Record
- 3. Calculat from Po gradien

Think Cri

4. Explain from Po Point C?