

MODERN EARTH SCIENCE

Section 3.2

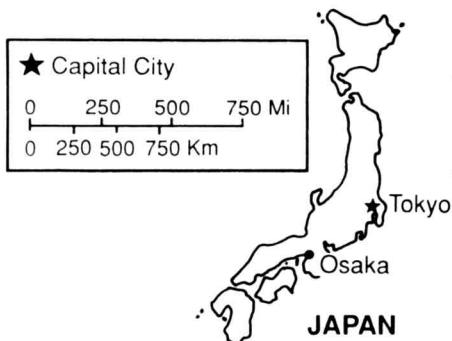
Mapping the Earth's Surface

Choose the one best response. Write the letter of that choice in the space provided.

- _____ 1. On a Mercator projection, the greatest distortion is produced:
- a. at the equator. b. at the poles.
c. along the prime meridian. d. midway between the poles.
- _____ 2. Which type of map is produced by fitting together a series of map projections?
- a. Mercator b. conic c. polyconic d. gnomonic
- _____ 3. Great circles are shown as straight lines on which type of map projection?
- a. gnomonic b. Mercator c. polyconic d. conic
- _____ 4. Which of the following is true of a Mercator projection?
- a. The shapes of small areas are preserved.
b. Spacing between parallels is equal.
c. Compass directions are curved.
d. Equatorial regions are greatly distorted.

Read each statement below. If the statement is true, write *T* in the space provided. If the statement is false, write *F* in the space provided.

- _____ 5. On a polyconic projection, the relative size and shape of small areas are nearly the same as those on a globe.
- _____ 6. The globe is a type of map projection.
- _____ 7. The ratio of 1:10,000 can also be expressed as 1 cm equals 1 km.
- _____ 8. Directions on a map should be determined in relation to the meridians and parallels.



- _____ 9. According to this map, the distance between Osaka and Tokyo is approximately 500 km.
- _____ 10. Osaka is a capital city.