## GEOLAB

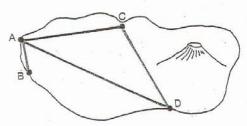
## THE MAP SCALE

The map scale is a way of showing the actual distances between places on the earth's surface.

HOME		SCHOOL
	ROAD	

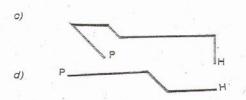
The map above shows a student's home and the road to school. The scale is  $1\ cm$ . represents  $1\ km$ .

- 1. The student is 1 cm. from home on the map. How many kilometres is the student away from home?
- 2. How many centimetres is the school from home on the map? \_\_\_\_\_
- 3. How far, in kilometres, is home from school? \_\_\_\_\_



- 4. Look at the map above of volcano island. The actual distance between town A and town B is two kilometres. How many centimetres is A from B on the map?
- 5. What is the scale of the map?\_\_\_\_\_
- 6. What is the actual distance in kilometres between towns:
  - a) A and D? \_\_\_\_\_
  - b) C and A?
  - c) D and C?
- 7. How many kilometres wide is the base of the volcano?\_\_\_\_\_
- 8. Use a map scale of 1 cm. to 10 km. on the lines below. Find the distance along the road between the post office (P) and the hospital (H). Give you answers in kilometres.





9. The scale of a map may be shown as a numbered line. An example is shown below.



- a) What does one centimetre represent on the line scale above?
- b) What does three centimetres represent?
- 10. What would be the distance between A and B on Volcano Island if you were to use the scale from question 9 instead?\_\_\_\_\_
- 11. Use a scale of 1 cm. represents 1 km. Draw a straight line showing a road eight kilometres long.
- Show the same road using a scale of
  a) 1 cm. represents 2 km.
  - b) 1 cm. represents 0.5 km.