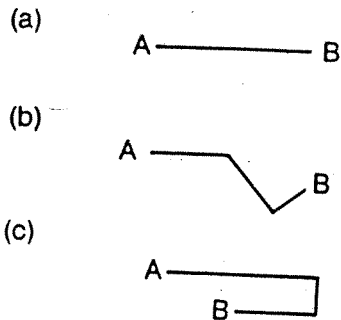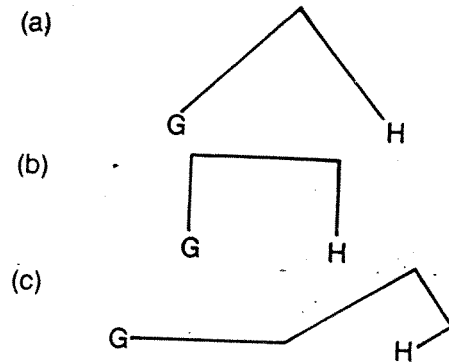**Preston High School Geography Department**
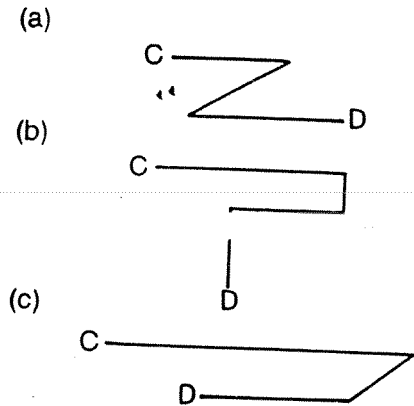# SCALES LAB

NAME _____

1. Imagine that the following diagrams show the roads between towns. Using the scale of **1 cm to 100 km** find the road distances between towns A and B.
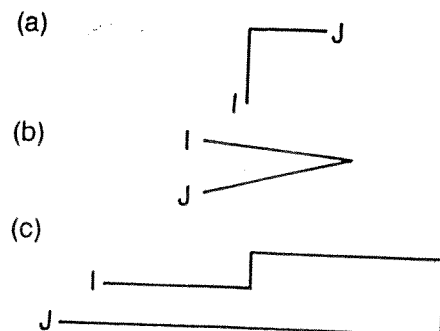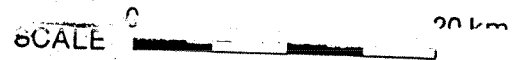
(a)

A ———————— B

(b)

(c)

2. Using the scale of **1 cm to 25 km** calculate the road distances between towns C and D.

(a)

(b)

(c)

3. Using the scale of **1:250 000** (1 cm to 250 000 cm or 1 cm to 2.5 km) find the distance between the towns E and F.

(a)

(b)

(c)

4. Using the scale provided below find the distance between towns G and H on the three diagrams.
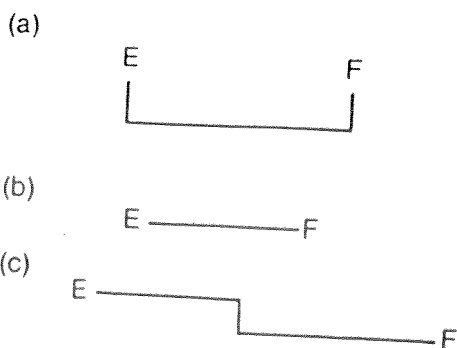
SCALE 0 ▬▬▬▭▬▬▬ 30 km

(a)

(b)

(c)

5. Using the scale provided below find the distance between towns I and J on the three diagrams.

SCALE 0 ▬▭▬▬ 20 km

(a)

(b)

(c)

1. Draw a linear scale to show each of the following scales.

(a) 1 cm: 12 km

(b) 1:6 000 000

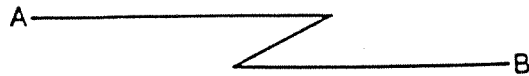2. Change the following scales to direct statements.

(a) 1:1 500 000

(b) 0 _____ 20 km

3. Using the following scales calculate the distance from A to B along the line.

(a) 1 cm: 7 km

(b) 1:12 500 000

(c) $\frac{1}{100\,000}$

A———————————————
                    ———————————B

4. Change the following linear scales to representative fractions.

(a) 0 _____ 3 km

(b) 0 _____ 80 km

(c) 0 _____ 4.5 km

5. The following diagram represents the shoreline of a small lake. It is drawn to a scale of 1:50 000

(a) Draw this lake to a scale of 1:100 000.

(b) Draw the lake to a scale of 1:25 000.

(c) What is the relationship between the sizes of the lake and the scales at which they are drawn?