

# Map Scales

Must be known to enable you to  
Measure Distance on a Map

# Map Scales

- It would be impossible to make maps the size of the landscape it represents
- Maps scaled down proportionally to ensure they are easier read
- Two maps the same size side by side could represent NI, but only a portion of Co Londonderry

# Map Scales

- Method used to tell us about scale is Representative Fraction (RF)
- RF we usually use is 1:50,000
- Most British maps now metric
- The essential connection is the SAME unit of measure applies to both map and ground

# Map Scales (1:50000)

- A Distance of 1cm on a 1:50000 map = 50,000 cms on the ground
- A distance of 1 metre on a 1:50000 map = 50,000 meters (50 Kilometres) on the ground
- 2 centimetres to 1 kilometre (One Grid Square)

1 Kilometre = 0.6214 miles – 1 Mile = 1.6093 kilometres

# Map Scales

- All maps printed with graphic linear scales
- Found on the bottom centre margin of the map
- Contains Kilometre, Mile and Nautical Mile scales
- Shows up to 20km/12 miles/10 Nautical Miles distance

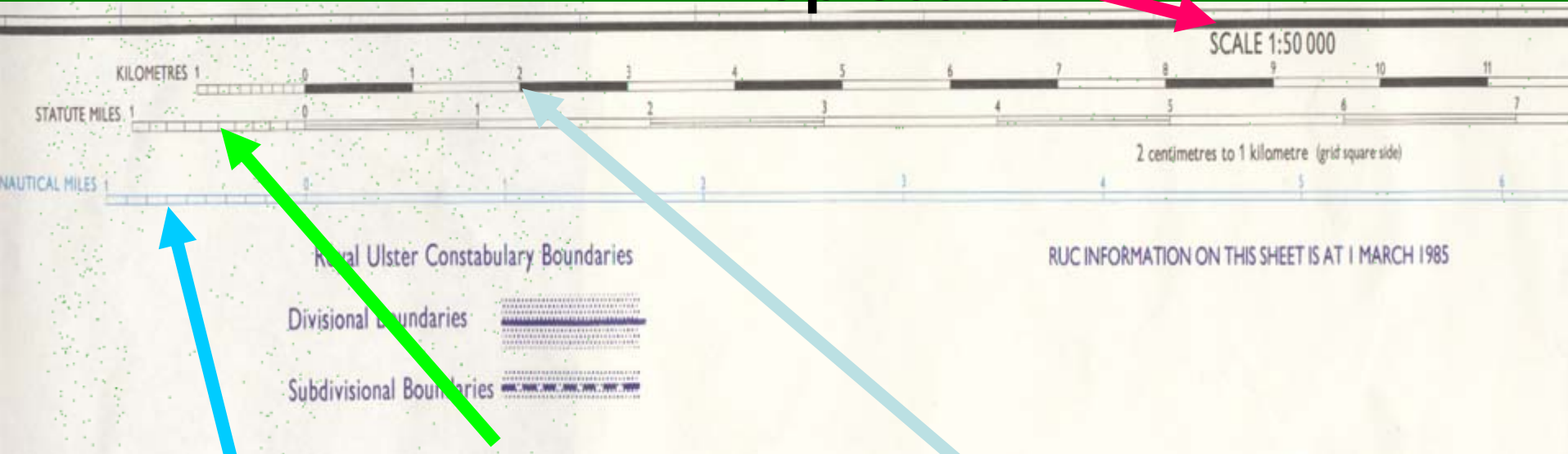


**SCALE 1:50 000**



# Map Scale 1:50000

Map Scale



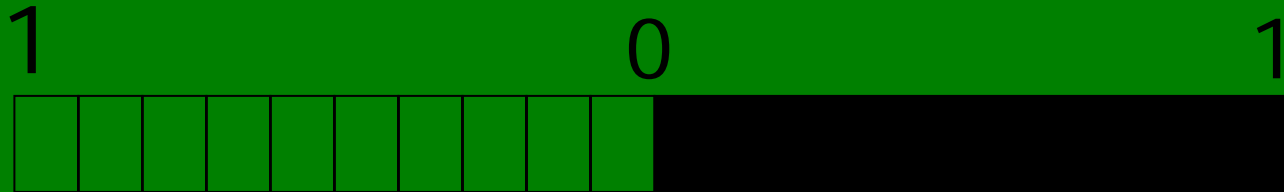
Miles

Kilometres

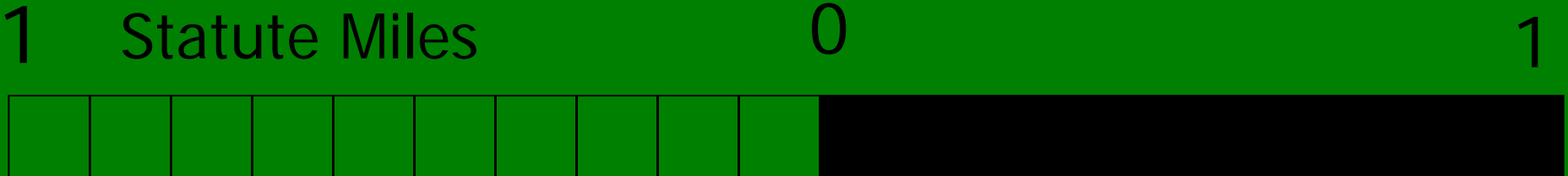
Nautical Miles

# Map Scale - Sub-Divisions

Kilometres



Statute Miles



- Zero (0) mark set 1 major division away from Right
- Division sub - divided into 10 sub – divisions usually 4mm long
- Any measurement in between these sub divisions must be estimated

**Any Questions on**

# Map Scales



# Measuring Distance on a Map

Sheet 4 (Coleraine) Map Required

Limavady Area

# Measuring Distance on a Map

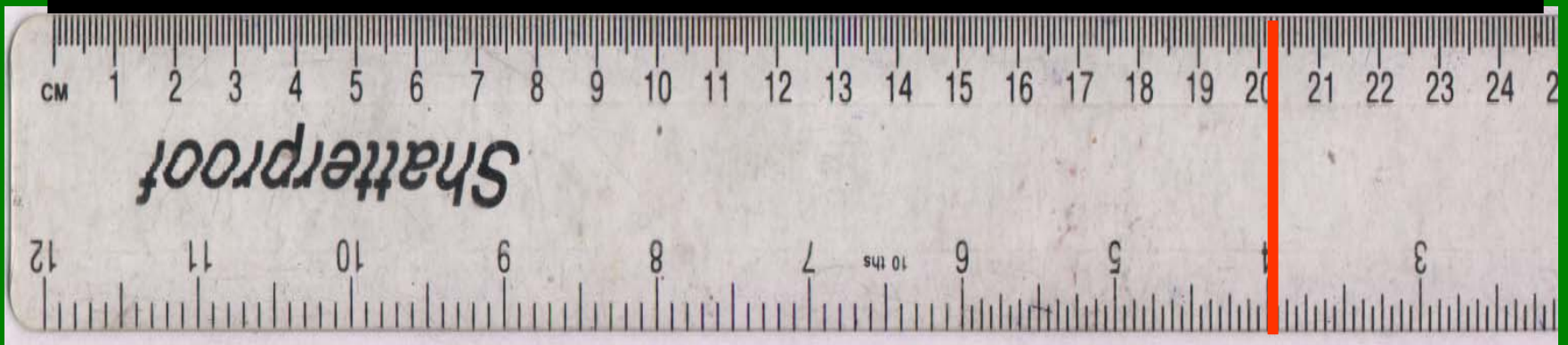
- To measure a straight line on a map, lay a ruler (or a piece of paper) from point A. to point B.

# Measuring a Straight Distance on a Map

A



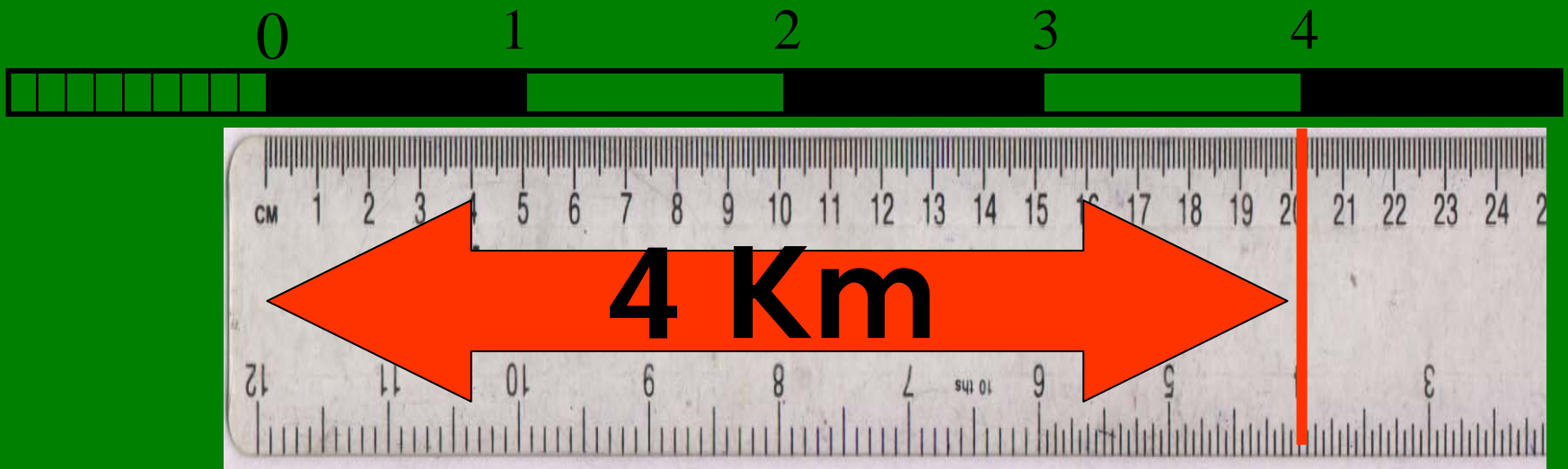
B



# Measuring Distance on a Map

- Measure it off against the scale at the bottom of the map.

# Measuring a Straight Distance on a Map Scale



- Read off Scale to tell you how far the distance is

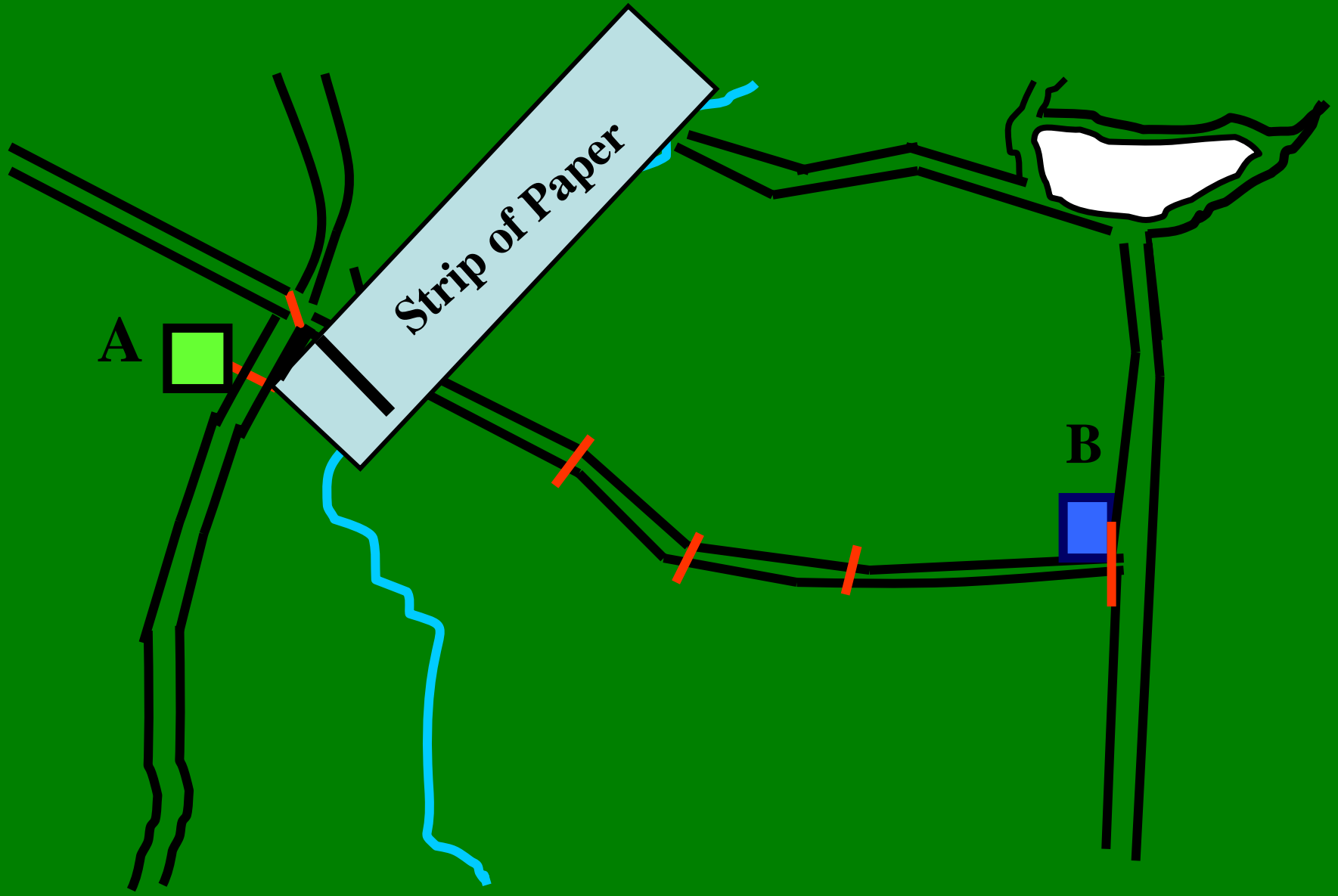
# Measuring Distance on a Map

- To measure the distance along a road or feature
- Lay a piece of paper along the feature and mark it
- Then pivot the paper following the feature until you reach your final point

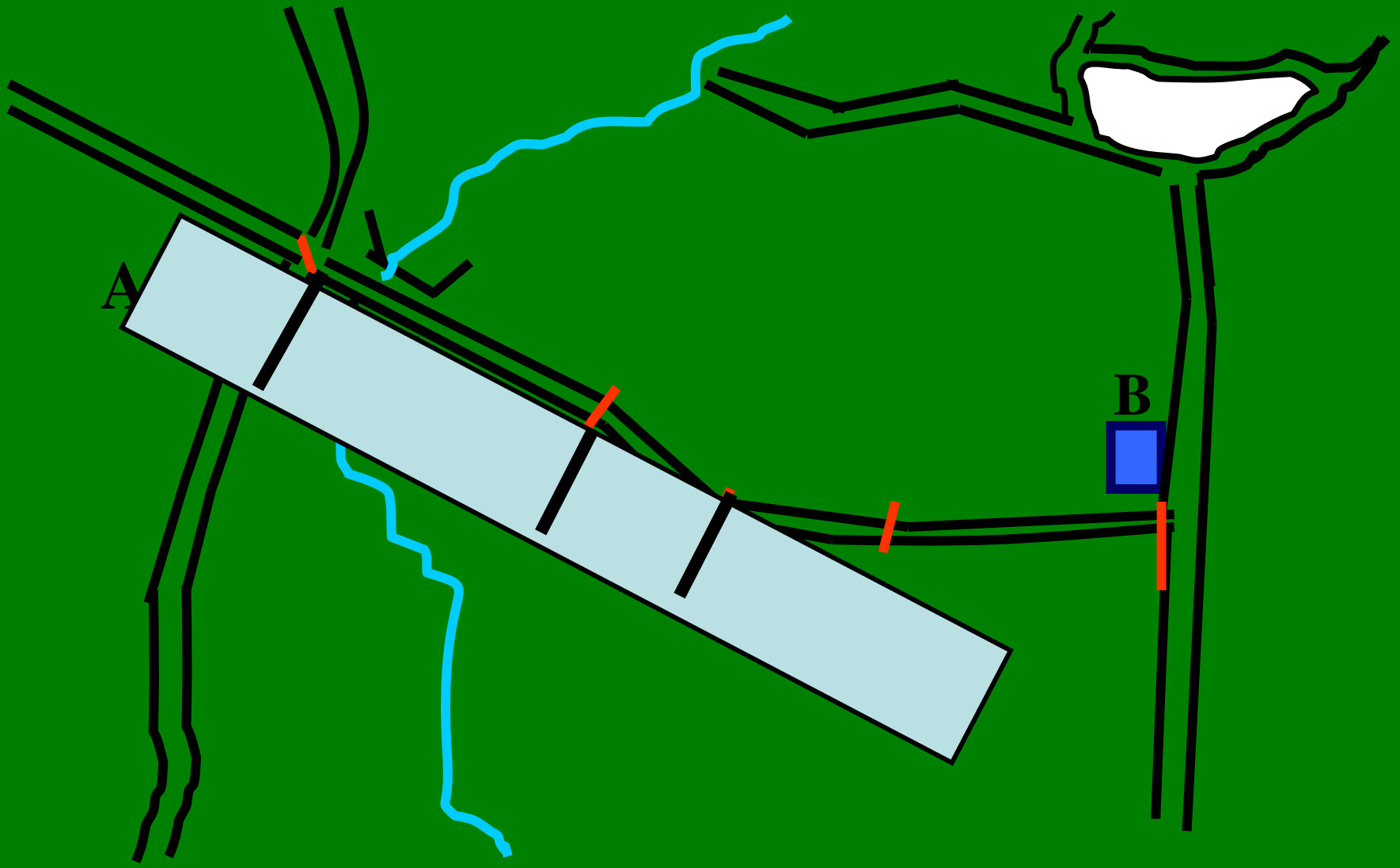
# Measuring Distance on a Map

- Mark the paper each time
- When you pivot along the feature, ensure you mark it on the point before the curve

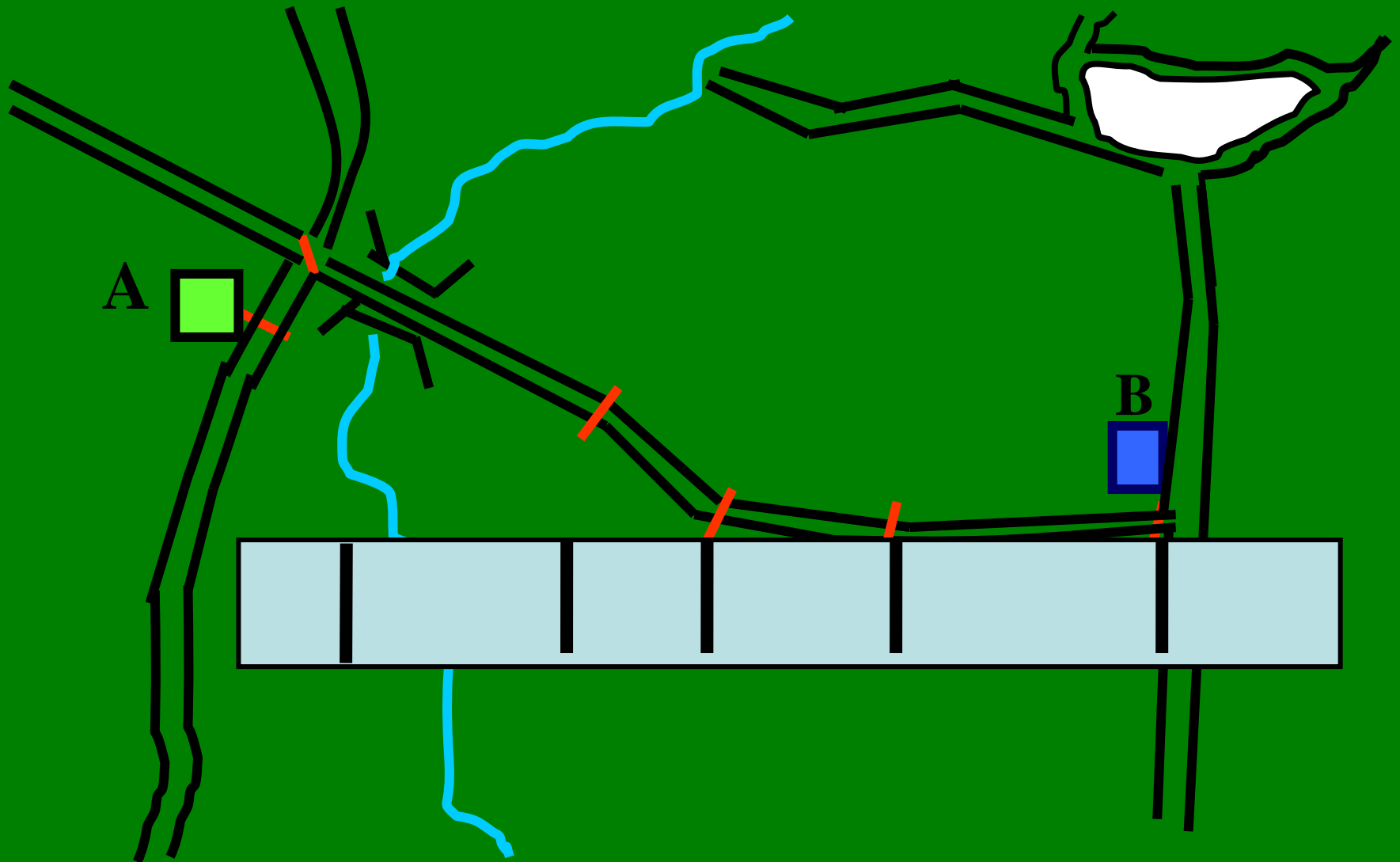
# Measuring Distance on a Map



# Measuring Distance on a Map



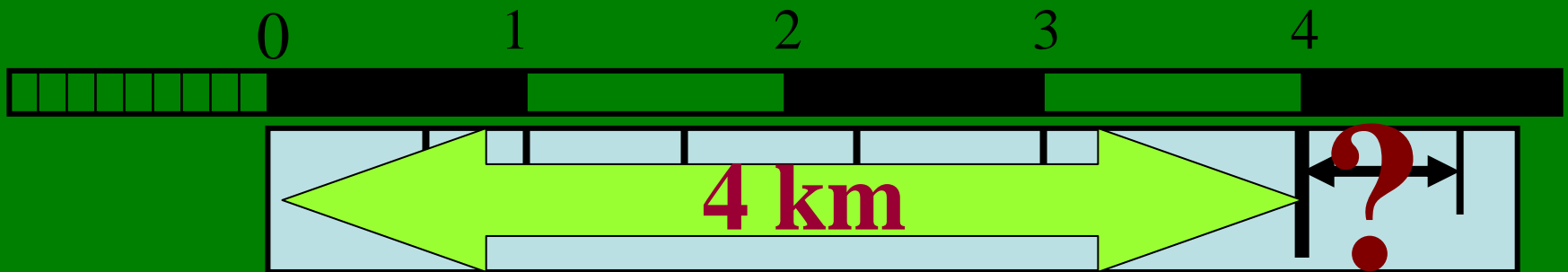
# Measuring Distance on a Map



# Measuring Distance on a Map

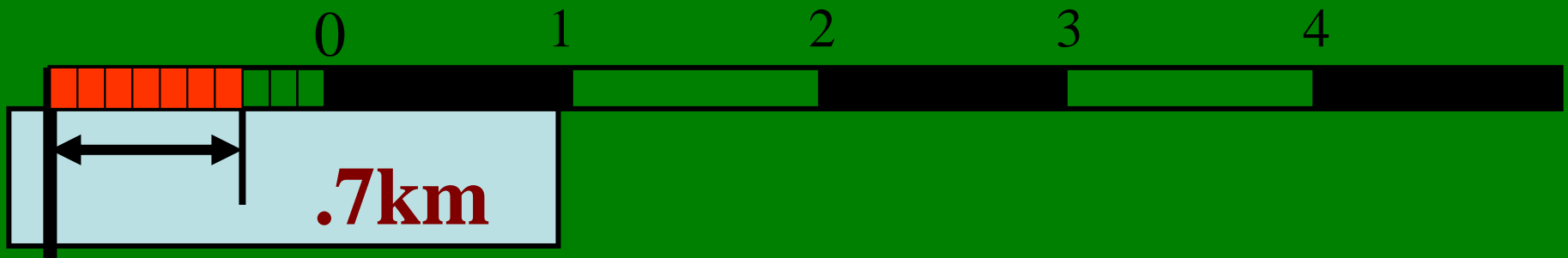
- The total distance is then recorded as a straight line on the piece of paper
- Read it off against the scale as before

- To measure distance put paper beside Scale at bottom of map



**Strip of Paper**

- To measure accurately use 10<sup>th</sup> scale at front of scale strip



**Total Distance = 4.7 km**

# Measuring Distance

Your chance to do it

## Limavady Sheet 4 Map

What is the Total Distance from:

**Grid 649230 to Grid 683247**  
**along the A 37**

**Answer in Kms**

## Limavady Map

What is the Total Distance from:

**Grid 638263 to Grid 666229**  
**along B Type Roads**

**In Kms**



# The End



Presented by

"Come on the Micks"