

**B. Scale of a map, Types of Scale**

**Date 26<sup>th</sup> Feb**

5. What is scale of a map?

*The relationship between the real world size of a geographic feature and its representative feature on a map is known as scale.*

*Scale is often represented as a ratio between the real world size and the size in units on the map.*

*For example, on a 1:100000 scale map, 1cm on the map equals 1km on the ground.*

6. Explain the different types of scale of a map?

a) Verbal Scale or Statement Scale:

*The verbal scale is just a sentence stating that "1 Map Unit = X Land Units". For reasons of convenience, a mixture of units is commonly used, such as*

$$1 \text{ inch} = 1 \text{ mile OR } 2\text{cm} = 1\text{km}$$

*This means 1 inch on a map is equivalent to 1 mile on land*

*Or 2cm on a map is equal to 1 km on the ground.*

**Date 2<sup>nd</sup> March**

b) Representative Fraction (R.F.):

*A R.F. scale is a ratio, or fraction, that expresses the mathematical relationship between MAP and LAND. A representative fraction (RF) is the ratio of distance on the map to distance on the ground.*

*Example 1: 24,000*

*This means 1cm on a map unit is equivalent to 24,000 cm on land units*

3. Graphical Scale or Linear or Bar Scale:

*The graphic scale is a bar chart or "ruler" that is drawn at the bottom of a topographic map.*

*This is the scale that we use when asked to measure distances on the map.*

