

## **Ratio and proportion**

### **Map Scale**

A map scale is the ratio of a single unit of distance on the map to the actual distance on the ground.

Map scale can be represented as a:

1. Ratio of the form  $1:r$
2. Representative Fraction, or R.F. of the form  $\frac{1}{r}$

### **Areas on a Map**

To find the relationship between the area used to represent a plot of land on a map and the actual area on the ground, we simply square the map scale.

If the map scale is  $1:r$ , the area scale is  $1:r^2$ .