12 Inches = 1 Feet

36 Inches = 1 Yard

3 Feet = 1 Yard

220 Yard = 1 Furlong

8 Furlong = 1 Mile

1 Gallon = 3.785 Litres

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8. An area of 144 cm2 on a map represents an area of 36 km2 on the field. Find the RF of the scale and draw the diagonal scale to show km, hm and dam and to measure up to 10 km. Indicate on this scale a distance of (1) 7 km (2) 5 hm and 6 dam

9. In a dam layout, a line of 33 cm in length represents a distance of 660 m. Prepare an approximate scale for the layout to read up to a single metre and mark a distance to measure 373 metres. Also show a distance of 93 metres on a diagonal scale.

10. An aeroplane is travelling at a speed of 360 km/h. Draw a diagonal scale to represent 6 km by 2 cm and show a distance up to 60 km. Find the RF of the scale. Find the distance covered by the aeroplane in 7 minutes 48 seconds and show it on the scale.

11. A distance of 25.4 cm on a map represents the actual distance of 508 km in a filed. What is the RF of the scale? Draw a diagonal scale of this RF long enough to measure up to 400 km and having a LC of 4 km. Show on the scale a distance of 272 km.

12. The distance between Nagpur and Chandrapur is 156 km. The cities are shown 156 mm apart on a road map. Draw a diagonal scale with this RF and long enough to measure up to 200 kilometers. Mark on it the following distances (1) 109 km (2) 168 km.

13. Construct a diagonal scale of RF = 1/6250 to read up to 1 km and to read meters on it. Show a length of 653 metres on it.

14. A forest measuring 130000 sq kilometers is represented on the map by a rectangle of size 80 cm x 65 cm. Construct a diagonal scale to read up to one hectometre and long enough to measure 70 km. Show the distances of 46.2 km and 0.6 km on it. What is the RF of the scale.

15. The volume of the water tank is 64 m3. It is represented on a drawing by a volume of 512 cm3. Construct a diagonal scale to measure up to 7 m. Show the following distances: (1) 6.23 m (2) 0.57 m. Find the RF.