**Problem 3**

RF = 1/6250

Maximum length to be measured = 1 km

⸫ Length of scale = 

**653 m**

**10**

**METERS**

**5**

**0**

**50**

**100**

**900**

**800**

**700**

**600**

**500**

**300**

**400**

**200**

**100**

**0**

**METERS**

**METERS**

**Problem 4**

85

25

25

70

Φ40

Φ20

50

25

25

15

25

20

50

20

40

**Problem 5**

RF = 1/2.5  
Maximum length to be measured = 4 dm => Length of scale =   
LC of main scale = 0.1 dm

Backward Vernier: 11 MSD = 10 VSD => 1 VSD = 0.11 dm = 11 mm

Mark on scale: 2.65 dm = 2.1 dm + 0.55 dm (i.e. 21 MSD + 5 VSD)

**10**

**0**

**1**

**2**

**DECIMETERS**

**2.65 dm**

**110**

**0**

**55**

**5**

**CENTIMETERS**

**MILLIMETERS**

**3**

**RF = 1/2.5**VERNIER SCALE SHOWING DECIMETERS, CENTIMETERS AND MILLIMETERS