COMPITO B

(1)

P [1761 de ro^{t} ni
  1773 de^{t}ro ni^{t}

RI [128 de ro ni^{t}
  138 de^{t}ro^{t} ni

RII [97 de ro ni
  89 de^{t}ro^{t} ni^{t}

Dro [6 de ro^{t} ni^{t}
  8 de^{t}ro ni

tot 4000

ni al centro

de	ni	rot
1	1	1

de^{t}	ni^{t}	ro
I	II	

$$Dis_{de-ni} = \frac{128+138+6+8}{4000} \times 100 = 7\,cM$$

$$Dis_{ni-ro} = \frac{97+89+6+8}{4000} \times 100 = 5\,cM$$

$$cc = \frac{8+6}{0{,}04 \times 0{,}05 \times 4000} \geq 1 \quad I = 0$$

de^{t} ni^{t} rot^{t} RII × 0,5

cc = 1 − 0,5 = 0,7

$$\int RII = 0{,}05 - (0{,}07 \times 0{,}05 \times 0{,}7) = 0{,}0475$$

de^{t} ni^{t} ro^{t} = 0,0475 × 4000 × 0,5 = 95

maCa ri ⊕ Ma ca Ri

COMPITO B

②

	PD	NPD	T	
ma ca	68 12 112	178	349 148 10 123	PD ≃ NPD non ass
ca Ri	12 112	123	349 148 68 178 10	PD ≃ NPD non ass
Ma Ri	148 12 112	10	349 178 68 123	PD > NPD associ

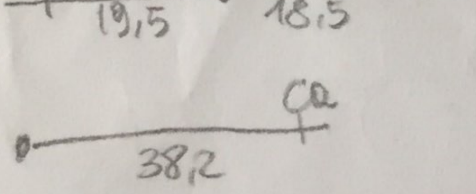
TOT = 1000

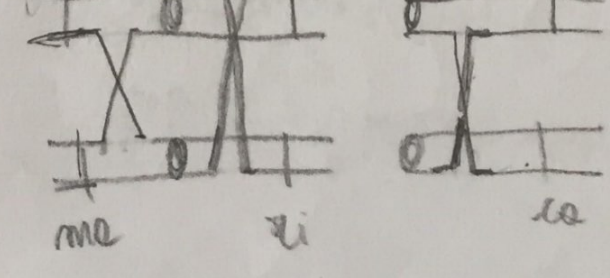
$$\text{Dis Ma-ri} = \frac{10 + 1/2(349+148+68+123)}{1000} \times 100 = 36,9 \text{ cM}$$

$$\text{CEN-Ma} = \frac{1/2(68+10+123+178+12)}{1000} \times 100 = 19,5 \text{ cM}$$

$$\text{CEN-Ri} = \frac{1/2(349+10+12)}{1000} \times 100 = 18,5 \text{ cM}$$

$$\text{CEN-Ca} = \frac{1/2(349+68+10+148+178+12)}{1000} \times 100 = 38,2 \text{ cM}$$

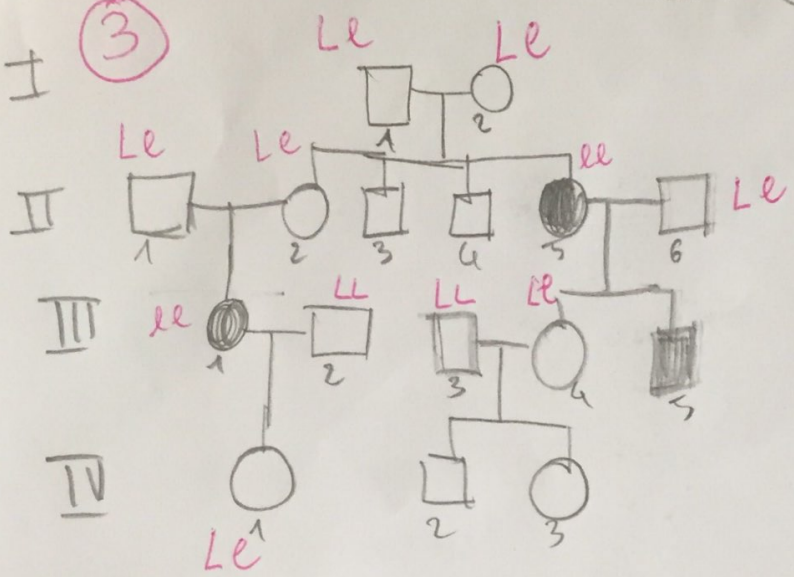




Ma ri Ca
ma Ri ca
Ma ri ca
ma Ri Ca

COMPITO B

IV2 ⊗ IV3 2 ℓℓ 3 Lℓ



III 4
Lℓ ⇒ (1)

IV 2
Lℓ = 1/2

IV 2 ⊗ IV 3 ⇒ V

Lℓ (1/2)	Lℓ (1/2)
LL (1/2)	LL (1/2)
Lℓ (1/2)	LL (1/2)
LL (1/2)	Lℓ (1/2)

ℓℓ = 1/4 · 1/2 · 1/2 = 1/16

L- = 1 - 1/16 = 15/16

Lℓ = 1/2 · 1/2 · 1/2 = 1/8

Lℓ = 1/2 · 1/2 · 1/2 = 1/8

Lℓ = 1/2 · 1/2 · 1/2 = 1/8

Lℓ = 1/8 + 1/8 + 1/8 = 3/8

a) $\frac{5!}{3!2!} \cdot \left(\frac{15}{16}\right)^3 \cdot \left(\frac{1}{16}\right)^2$

b) V1 Lℓ = 3/8