L2=0.1

L= β + qt - β - qt = 2

Which can be written as

(1-r2) . sy2 0.1

\_\_\_\_\_\_\_\_\_ = ( \_\_\_\_\_\_\_ )2

(n-2) . sx2 2 \* qt

4 qt2 .(1-r2) .sy2

n-2 = \_\_\_\_\_\_\_\_\_\_\_\_\_

(0.1)2 sx2

For 95% Confidence Interval

qt= qt(0.975,df=9) = 2.262157

4 \* (2.262157)2 \* (1 − 0.311425) \* 7.4

n-2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(0.1)2 \* 6.6

= 1580

We should plan to observe close to 1580 pair of sister-brother.