What is the probability that if a couple has 4 children all

That is the probability that if a couple has 4 children that all 4 will be females? 116 $\mathcal{P}(\mathcal{A}) = \mathcal{P}(\mathcal{A}) = \mathcal{P}(\mathcal$ will be males? Tuesday, March 30, 2021 11:40 AM nan has a father who died of Huntington's disease. What is the probability that she will develop the symptoms of the disæse? ح A couple are both tested and found to be carriers of the cystic fibroșis gene. If they have 2 children, what is the chance that both will be affected by cystic fibrosis? We yet $\gamma_{U} = \sqrt{6}$ What is the chance that both will be carriers? hat is the chance that they will have 2 girls that are both affected by cystic fibrosis? $\sqrt{n} \neq$ ghaletelis cf * girlaletelis of $Y_{4} \times Y_{2} \times X_{q} =$ 3 × X8 = ×64 The ability to taste the chemical PTC is determined by a single gene in humans with the ability to taste given by the dominant allele T and inability to taste by the recessive allele t. Suppose two heterozygous tasters (Tt) have a large family. a. Predict the proportion of their children who will be tasters an inntasters. H = H will be What is the likelihood that their first child will be a taster? $H = \frac{1}{2}$ APZ 753 AP J -5/4 For a Caucasian couple with no family history, what is the chance they will have a child with Cystic Fibrosis? Knowing that Caucasian population carrier frequency is 1/25 1/25+ /25= 1/625 1/25 1/25

Re Mark Agenutand Tuesday, March 30, 2021 1:35 PM For a Caucasian couple with no family history, what is the chance they will have a child with CF? carrier free 1/25 25-papte onero Entalle MCH LONSV J na 14 ha Father carrier and pass the mutant allele to the child and Mother is a carrier and passes the mutant allele to child $1^{1/2+1+1/2=1/4}$ Couple with diagnosis of CF in mother's nephew . What is risk to fetus? carrier freq 1/25 E 2 0 25 <u>VIL</u> alal 2 0.5 0.500 AA Aa M q