

Master 4.7 Answer Key

What Impact Would Max's Newly Discovered Mutation Have on Him and Others?

Name	Age	1. If Max had the mutation, what is the chance that the person below also inherited the mutation? 2. What is the chance that the person would develop thyroid cancer?
Max	15	1. 100% 2. 100%
Pierre	39	<i>No additional info; married into family; assume he's homozygous recessive (tt).</i>
Sally	9	1. 50% chance of being heterozygous (Tt); 50% chance of being homozygous recessive (tt). 2. 50%
Diane	31	1. 50% chance of being heterozygous (Tt); 50% chance of being homozygous recessive (tt). 2. 50%
Lindsey	5	1. 25% chance of being heterozygous (Tt); 75% chance of being homozygous recessive (tt). 2. 25%
Eula	80	1. 50% chance of being heterozygous (Tt); 50% chance of being homozygous recessive (tt). 2. 50%, but she is 80 years old and free of thyroid cancer, so she must be homozygous recessive (tt).