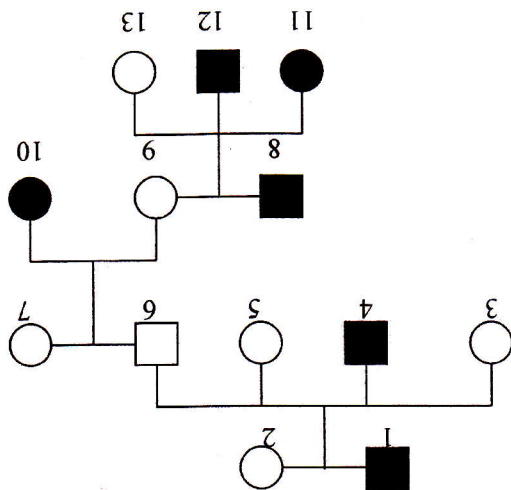


Yr 10 Quiz Life and Living New Generations- pedigrees.

Q1. Muscle dystrophy is a recessive disease characterized by wasting of the muscle. Let M stands for normal and m stands for muscle dystrophy.



a) what is the genotype of individual 2? Mm

b) What are the genotypes of 6 and 7? Mm

c) What is the genotype of individual 9? Mm

d) If individual 10 mates with a hybrid normal, what is the chance a child will have

i) muscle dystrophy 50%

ii) be normal 50%

e) If individual 3 mates with pure normal individual, what is the chance their child

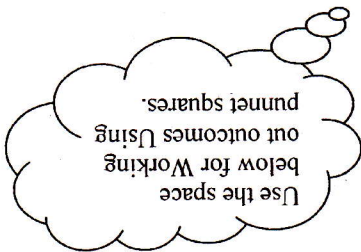
i) is homozygous normal, 50%

ii) heterozygous normal, 50%

iii) have muscular dystrophy. 0%

f) Which individuals are heterozygous?

g) Which individuals are homozygous?



d)

	m	m
M	Mm	Mm
m	m	mm

e)

	M	M
M	MM	MM
m	Mm	Mm

f) 2, 3, 5, 6, 7, 9, 13
g) 1, 4, 8, 10, 11, 12