Mendelian Genetics

Brain dump: Mendels legacy - Wasn't appreciated until death - transmission genetics - provided proper experimental methodology	
What makes Pissum Sativa the perfect model organism? - self fertilizing	
- easy to grow - matures in one season 2 distinct tolms characteristics - true breeding strains What is a monohybrid cross? What does the P, F1, and F2 generation stand for? - only 1 Pair of trails is observed	
P = Parent f = off spring of Parent f = off spring of of spring What is the result of crossing two plants heterozygous for a tall stem? (Use Pp as the genotype) PPP 3 tall 4 PP QPO 100 1 duart 1 hpp	

What is a reciprocal cross?

Not sex dependent

What are Mendels 3 postulates?

- Unit factors (alleles) exist in Pairs
- Dominance & recessive
- segregation (unit fectors must split)

What do homozygous and heterozygous genotypes look like?

Homo = BB or "

Hetero = Br

What is a testcross? What are the possible outcomes for a monohybrid test cross?

A test to solve if the genotype is homoshetero. Must cross with a homozygous recessive

D? Xdd

This cross resulted in Zero recessive traits, indicating the genotype is homozygous dom If A resulted in a recessive cross, It would be heterozygous

Dihybrid Mendelian

What is a dihybrid cross? What is its ratio?

What is independent assortment?

What is the product law?

If you cross a plant with the traits for purple or green petals and for tall or dwarf stems? What is the produced genotype and phenotype? What is the probability of producing a green and dwarf plant? (P= dominant purple & p=recessive green; R= dominant tall & r=recessive dwarf)

1/10 or 6.2590

A make sure to write the letters next to exchather
-should be PPRR NOT PRPR

What is a trihybrid cross? What is used to solve these crosses?

you now have 3 independent traits forked -line method

If you cross a plant with the following traits, what is the probability of producing a plant that is tall, has green petals, and is wrinkled?

Tall = A

green = b Abc

wrinkled = C

= 3/04

A you need to know what common traits
are recessive or dominant &