

Problem Set 1: Mendelian Crosses

1. In a monohybrid cross, which trait(s) you choose to focus on is/are the trait(s) you're studying, while the trait(s) you don't choose to focus on is/are the trait(s) you're ignoring. (Remember, phenotype/genotype is everything.)
2. In a monohybrid cross, the two parents are crossed with one's pure with homozygous dominant (AA) and the other's homozygous recessive (aa). What phenotype ratio (Aa:aa) would you expect?
3. What's a Punnett square? Is it the phenotype and genotype resulting from a genetic cross? (Following monohybrid crosses of pea plants)
 - a. Homozygous tall (AA) x homozygous short (aa)
 - b. Homozygous tall (AA) x heterozygous tall (Aa)
4. Suppose that a pure red kidney bean (RR) is crossed with a pure white kidney bean (rr). What's the probability of getting a red kidney bean in the F₂ generation? (Remember, the F₁ generation is heterozygous (Rr).) What's the probability of getting a white kidney bean in the F₂ generation?
5. In a monohybrid cross, there's a 50% chance that the offspring's phenotype is the same as the parent's phenotype. (Remember, the F₁ generation is heterozygous (Rr).) What's the probability of getting a red kidney bean in the F₂ generation?

	A	a
A	AA	Aa
a	Aa	aa

6. What's the probability of getting a red kidney bean in the F₂ generation? (Remember, the F₁ generation is heterozygous (Rr).) What's the probability of getting a white kidney bean in the F₂ generation?
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Monohybrid Crosses Practical 201 5

Ensheng Dong



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web the tanks may be covered on top the tanks like purification tanks imhoff tanks septic tanks and gas holders are built underground the walls of these tanks are subjected to water pressure from inside and the earth pressure from outside the base is subjected to weight of water and soil pressure

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web example 1 a rectangular r c water tank with an open top is required to store 80000 liters of water the inside dimensions of tank may be taken as 6mx4m design the side walls of the tank using c 20 concrete and steel of class i assume free board of 15cm 9 58 1 3 9 58 16 1 3 27 4 200 27 4 7 3 7 3 7 3 100 7

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web the behaviaur and design procedure of various tanks has been discussed under the following heads i tanks resting on ground ii overhead tanks iii underground tanks 22 4 1 tanks resting on ground the water tanks resting on ground may be of

the following types i circular tank with flexible base ii circular tank with rigid base iii

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web design of rectangular underground water tank capacity of water tank 200m³ shape rectangular underground water tank

unit weight of soil 34.93 kn/m³ angle of internal friction ϕ 37° bearing capacity of soil 230 kn/m² free board 2.5 m materials

available m20 grade of concrete steel grade 1