

Genetics: Mendel's Experiments

Answer these 10 questions based on a hypothetical plant of purple flowers.

1. What is considered the father of genetics? *Mendel*
2. Summarize Mendel's three principles:
 - a. Principle of Dominance: *dominant alleles are expressed, recessive are not*
 - a. Principle of Segregation: *each parent passes down one of its two alleles, which combine to form the offspring*
 - a. Principle of Independent Assortment: *traits are passed down independently of each other during inheritance of gametes*
3. What are alternative forms of a gene called? *Alleles*
4. What is a Puntate Square method? *is used to predict genetic crosses and predict probabilities*
5. What is genotype? *the genetic makeup of an organism*
6. What is phenotype? *the expressed physical characteristics of an organism*
7. What is a trait? *a specific characteristic or individual*
8. What might a dominant offspring be expected from a cross of? *dominant with dominant or*
9. How parents with the genotype Pp for a particular character resulted by a monohybrid cross, not crossed. What would the genotype for the genetic character be? *show that Mendel's experimental data phenotype ratio*

all plant types from genetic inheritance are Phenotypic Ratio: 3:1

10	PP	Pp
100	Pp	pp
1	1	1

*is 3:1 ratio
1 with opposite character*

10. Show the cross for a genetic character caused by a dominant allele but expect from heterozygous parents. Will any of their children inherit this character?

Yes, all children will inherit character

100	PP	Pp
100	Pp	pp
1	1	1

Genetics Test Review Answer Key

Christian G. Meyer



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web feb 10 2022 on we were trying to answer for this lab is w s the percent copper of a post 1983 1959 to 1982 copper made up 95 of pennies while tin and zinc made up the remaining 5 however since copper became more expensive the united

states treasury took t sion to alter the pennies

drops on a penny experiment stem library lab - Sep 21 2022

web in this activity you ll experience surface tension and cohesion by testing how many drops of water you can you fit on a penny you might be surprised considering pennies are so small there s only one way to find out

gold penny lab flashcards quizlet - Feb 24 2023

web what was the purpose of the penny lab observe how properties of a metal can change how will copper be changed in terms of its properties by heating the copper with zinc in the presence of a sodium hydroxide naoh solution the zinc replaces the copper in the naoh solution then the zinc diffuses into the copper when heated zinc naoh

drops on a penny lab little bins for little hands - May 30 2023

web oct 3 2023 penny lab experiment let s investigate how many drops of water can fit on a penny grab your purse turn over the couch cushions or break out the piggy bank it s time to find some pennies to experiment with supplies pennies eyedropper or pipette water food coloring makes seeing this in action much easier but is optional small bowls

take a guess science spot - Jun 30 2023

web 1 explain your results from both parts of the experiment in terms of cohesion and surface tension 2 how do your results compare to the other groups in your class provide at least 2 possible reasons for any similarities and differences you identified drops on a penny teacher notes materials

penny lab review flashcards quizlet - Sep 02 2023

web study with quizlet and memorize flashcards containing terms like observations of part 1 observations of part 2 what caused the penny to turned silver was it a chemical or physical change and more

penny lab soap and surface tension the biology corner - Jan 26 2023

web jun 22 2018 use pennies soap and a pipette to conduct a lab on the surface tension of water this lab is intended to reinforce the principles of the scientific method developing a hypothesis testing a hypothesis and analyzing data

penny lab answer key a docest - Aug 01 2023

web penny lab answer key a 7th grade environmental science 1 the independent variable in this experiment was the side of the penny 2 the dependent variable in this experiment was the number of drops on a penny 3 surface tension is what makes water dome on the penny