

The Analysis of Biological Data - Whitlock and Schluter

Solutions to practice problems

Chapter 1

1. **(a)** Ordinal **(b)** Nominal **(c)** Nominal **(d)** Ordinal
2. **(a)** Observational (cats were observed to fall a given number of stories—the researchers did not assign the number of stories fallen to the cats). **(b)** The number of floors fallen. **(c)** The number of injuries per cat.
3. **(a)** Discrete **(b)** Continuous **(c)** Discrete **(d)** Continuous
4. **(a)** Collectors do not usually sample randomly, but prefer rare and unusual specimens. Therefore, the moths are probably not a random sample. **(b)** A sample of convenience. **(c)** Bias (rare color types are likely to be over-represented in the sample compared with the population).
5. Accuracy.
6. **(a)** Categorical **(b)** No random sampling procedure was followed so the survey is not random; the respondents were volunteers. **(c)** Volunteer bias (those most interested in the issue were more likely to respond).
7. **(a)** US army personnel stationed in Iraq. **(b)** Yes. The number of subjects interviewed was a random sample of only 100 from the population; therefore the responses of the particular individuals who happened to be sampled will differ from the population of interest by chance. **(c)** The advantage of random sampling is that it minimizes bias and allows the precision of estimates of stress levels to be measured.
8. **(a)** The population being estimated is all the small mammals of Kruger National Park. **(b)** No, the sample is not likely to be random. In a random sample, every individual has the same chance of being selected. But some small mammals might be easier to trap than others (for example, trapping only at night might miss all the mammals active only in the day time). In a random sample individuals are selected independently. Multiple animals caught in the same trap might not be independent if they are related or live near one another (this is harder to judge). **(c)** The number of species in the sample might underestimate the number in the Park if sampling was not random (e.g., if daytime mammals were missed), or if rare species happened to avoid capture. In this case m would be a biased estimate of M .
9. Chicks were not sampled randomly. The multiple chicks from the same nest are not independent. Chicks from the same nest are likely to be more similar to one another in their measurements than chicks chosen randomly from the population. Ignoring this problem will lead to erroneous measurements of the precision of survival estimates, sampled randomly from the population.

Chapter 2

1. **(a)** 25% **(b)** 33% **(c)** 33%

Analysis Of Biological Data Problem Answers

DJ Losen



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the objectives of the boiling point determination lab were to determine the boiling point of a mystery substance provided to each student boiling point is the point at which a liquid changes physical states and becomes a vapor or gas boiling point is important to understand because it can be used to help distinguish between different substances

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the boiling point of an organic liquid is the temperature at which its vapour pressure equals the atmospheric pressure over the liquid or it is the temperature at which the vapour and liquid phases are in equilibrium at a given pressure the boiling point is considered as a criterion of purity of a compound and is useful for identification of

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given that the boiling points of ethanol and methanol 78 c and 64 c respectively are far off in a significant way this seems like a valid conclusion conclusion thermometer calibrations are necessary in order to collect reliable information as precise calculations are imperative to gathering correct results

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melting point 1 a push the open end of a capillary tube into the powdered acetamide b move the powder to the closed end of the capillary tube by tapping it on the table repeat until the powdered acetamide occupies 1 2 mm of the capillary tube end c

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boiling point determination lab report conclusion objective to correctly measure boiling issues of various liquids and identify an unknown liquid based on its boiling point background information objects can be distinguished into acid properties and physical properties

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discussion and conclusion the technique recrystallization was used because it is a simple method to purify a solid compound the percentage yield for benzoic acid and acetanilide acid being high indicated the initial sample had a low concentration of impurities with the melting point being in a specific

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introduction in this lab we will be using boiling points melting points and infrared spectrometry to identify unknown compounds boiling points are affected by three key factors the first being intermolecular forces inter molecular affect boiling point based on bond strength

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determination of boiling points introduction the boiling point of a compound is the temperature at which it changes from a liquid to a gas this is a physical property often used to identify substances or to check the purity of the compound it

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clean up solid and liquid spills immediately true conclusions after conducting the boiling point determination lab it can be concluded that the unknown substance 193 is isopropyl alcohol on account of its observed boiling point of 88 c

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conclusion after completing this experiment the melting point of three different unknown compounds was obtained using the mel temp apparatus compound a had a melting point range of 114.6-115.5 c thus revealing it to be acetanilide compound b had a melting point range of 122.6-124.5 c thus

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melting point can be used as the identity and purity of an organic solid however it is not the same as the boiling point the boiling point is a characteristic unique of pure liquids the boiling point is the temperature at which the vapor pressure of a liquid is equal to the atmospheric pressure

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aug 11 2020 boiling points are very sensitive to changes in applied pressure so all boiling points should be reported with the measured pressure a compound's normal boiling point refers to its boiling point at a pressure of 760 mm Hg

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the purpose of the experiment is to understand what vapour pressure is and how it changes with temperature to understand the relationship between vapour pressure at a given temperature and boiling temperature at a given pressure to determine the vapour pressure of a pure liquid at various temperatures

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exploring boiling points abstract in this experiment we are given a set of straight chain alkanes and a set of compounds to compare by following the trendline of the straight chain alkanes it could be concluded that as the molar mass of the straight chain alkanes increases their boiling points increase as well

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laboratory partners samantha and mackenzie goals □ correctly determine the boiling point of an unknown liquid □ measure the refractive index of an unknown □ use the gas chromatogram to determine the mass percentage of a mixture and

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50 °C so in order to convert an experimental measurement taken in Calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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introduction in chemistry one may encounter an unknown substance that needs to be determined by physical properties such as boiling point melting point density solubility etc in this experiment I aim to figure out the boiling point of a mystery substance in order to identify it chemical responsibility this experiment requires the handling of a Bunsen burner boiling

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there are a variety of methods by which a sample's boiling point can be determined including distillation reflux and by using a Thiele tube the most straightforward method uses a Thiele tube and has the advantage of using less than 0.5 mL of material

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