DATING PRACTICES

Performance Standards (10A/10B).J

Create and administer a survey, analyze and present results:

- *Mathematical knowledge*: Create and conduct survey to obtain accurate conclusions based on data and population;
- *Strategic knowledge*: Determine sampling techniques to elicit information; and
- *Explanation*: Explain completely what was done and why it was done

Procedures

1. Provide students with sufficient learning opportunities to develop the following in order to (10A) organize, describe and make predictions from existing data, and (10B) formulate questions, design data collection methods, gather and analyze data and communicate findings:
   - Interpolate, extrapolate, and make predictions from given information.
   - Present results and conclusions from given data using basic statistics (e.g., measures of central tendencies, standard deviation.
   - Create a survey from a critical question and decide which sampling technique to use for the survey.
   - Evaluate surveys for clarity, bias, return rate, and specialized audiences.
   - Describe how sample statistics reflect the values of population parameters and use sampling distributions as the basis for informal inference.
2. Students are given the task sheet to design and carry out a survey, and analyze and present results. It is assumed that the students have studied and discussed sampling techniques and their advantages and disadvantages.
3. A 4 in mathematics knowledge would require a completed survey that gathers usable data and a presentation with accurate conclusions based on the data and the population. A 4 in strategic knowledge would require a sampling technique that appropriately elicits the desired information. A 3 may be awarded if the sampling technique was appropriate but, for a reason the student can explain, did not work well. A 4 in explanation would require a complete explanation of the choice of sampling technique, analysis, conclusions and predictions.

Examples of Student Work not available

Time Requirements

- One or more class periods may be required to create a critical question and write the survey questions, deciding which sampling technique to use.
- Two or three days may be required outside of class to administer the survey
- Several days will be needed to analyze and present results.

Resources

- Copies of the "Dating Practices" task sheet
- Access to a population to sample
- Mathematics Rubric

NAME _____ DATE _____

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Student Task Sheet

Your school social worker wants to gather data from students regarding dating practices. Create a set of questions that would elicit important information to guide new programs to help students cope with dating problems. Decide upon a sampling technique and how many responses will be needed to get a representative sample.

Carry out the sampling and evaluate it for clarity, bias, return rate if not done orally, and specialized audiences. Present results and conclusions from the data in an organized form. Make predictions and describe how the sample statistics reflect the population parameters.

Describe in words how and why you chose your sampling technique, what portion of the population will be sampled and how, and your post-sampling analysis. Submit all writing, data presentation, conclusions, and the survey.