

## Section 11.2 Math Link

This worksheet will help you with the Math Link on page 429.

For your research project, choose one of the research questions you wrote for the Math Link on page 421.

1. What is your research question? Check that your question is clearly written and free from influencing factors.

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2. Write a hypothesis that clearly states what you want to prove or disprove. A *hypothesis* is a statement that will guide your investigation.

Example: The population of burrowing owls will continue to decline in Canada.

- a) What is your prediction? Make your best guess about the direction of the relationship expressed in your research question.

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- b) What is your hypothesis? Choose something that can be tested to be true or false through scientific studies. Be specific and limit your hypothesis to one sentence.

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3. Identify and describe the population for your question.

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4. To answer your question, you will need to find data from studies and surveys that have already been done. You will do the research in the Math Link on page 439.

What types of samples do you think would be used to collect data related to your question? For each sampling method, explain your reasoning.

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