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## **CHAPTER 1**

# INTRODUCTION TO MARKETING RESEARCH

## **LEARNING OBJECTIVES**

- To know the relationship of marketing research to marketing the marketing concept and marketing strategy
- To know how to define marketing research
- To understand the purpose and uses of marketing research
- To know how to classify different types of marketing research studies
- To describe a marketing information system (MIS) and understand why marketing research occupies a place in an MIS

#### **CHAPTER OUTLINE**

# **Introducing Marketing Research**

# The Relationship of Marketing Research to Marketing

The Importance of Philosophies and the Philosophy We Call "The Marketing

Concept"

The "Right Marketing Strategy"

## **Defining Marketing Research?**

# What Is the Purpose of Marketing Research?

## What Are the Uses of Marketing Research?

Identifying Market Opportunities and Problems

Generate, Refine, and Evaluate Potential Marketing Actions

Monitor Marketing Performance

Improve Marketing as a Process

## **Classifying Marketing Research Studies**

# **The Marketing Information System**

Components of an MIS

## **Getting Familiar with This Book**

#### **KEY TERMS**

Marketing Concept

Marketing strategy Marketing research

Market research Purpose of marketing research

Basic research Applied research

Marketing information system Internal reports system

Marketing intelligence system Marketing decision support system (DSS)

Marketing research system Online research

Web-based research Online survey research

## TEACHING SUGGESTIONS

- 1. The purpose of the first section in the chapter is to review marketing, the marketing concept, marketing strategy, and the environments that affect marketing activities. A way to test students (and to bring their thinking back to school because this will be the first week in a new term) is to have them role play as marketing managers for a new brand of a particular product. In the following examples, what would be the target market, salient marketing activities, positioning strategy, and environmental factors?
  - Launching a new brand of sparkling water fruit drink
  - Marketing an online apartment finder that assists college students in finding an apartment. The finder would search for apartments based on criteria, check on vacancies, and let the user place a refundable deposit to hold the apartment for 24 hours while he/she checked it out.
  - Being the new vice president of the ABC Interactive Television Programs Division
  - Positioning the iPhone against other similar products

- 2. The AMA definition makes clear that marketing research exists to create information to be used in marketing decisions. Product failures are good class examples of how marketing information should have been used to design products, packaging, or services. Students can often recall products or services that were disappointing or otherwise failures in their eyes. Class discussion can be stimulated with the question, "What product or service can you think of or have you encountered that would have benefited from good marketing research?" On the flip side, students may relate products that they believe are especially successful. College student—oriented products are a good category because all students can relate to them. The objective with successful product/service examples is the same.
- 3. The website for New Product Works is <a href="www.newproductworks.com">www.newproductworks.com</a>. As an exercise, tell students to visit the Web site to see what it is all about. Class discussion can focus on the marketing research aspects of the new product development process outlined and described there and this company's services.
- 4. To drive home the importance of marketing research information in marketing decisions, ask students what type of restaurant they would build and operate right off campus. They will opt for one that is appropriate for college students—maybe a late night hangout or a takeout service. Then ask what type they would build if the location was beside a university in a distant state. They will most likely give the same answer. Now, move the location to a foreign university (say mainland China where all college students live in dorms, eat in dining halls, have free tuition, don't drive cars, etc.). If possible, use a country that you are familiar with and that is quite different from your students' situations. They will come to realize that they need information in order to make reasonable decisions about the restaurant.
- 5. Hold a class brainstorming session on marketing opportunities. Select one of the examples below or use your own to generate several different directions in which these companies could go. Ask the class what marketing research information would be useful to evaluate the success potential of each opportunity brainstormed.

What marketing opportunities are there for:

A zoo? A family restaurant? A pet food company?

- 6. Perhaps using one of your own applied research experiences, such as a consultation, illustrate the various characteristics of marketing research (applied rather than basic, sometimes inaccurate, and shaped by budget and time constraints). Note: if you use class projects where surveys are done for sponsors, you can bring one of these into the class and describe how it illustrates the characteristics. You may want to bring a recent copy of an academic marketing journal to class to provide some examples of basic research.
- 7. Other sources classify the various types of marketing research in detail. The classification system in chapter 1 is what might be called a marketing strategy—based one (identify opportunities or problems, evaluate potential actions, etc.). An alternative is to use the

- marketing mix as the basis. Introduce each "P" and ask students what marketing research would be appropriate or necessary in order to make wise decisions on this "P" and its subcomponents.
- 8. Because it is a complicated and abstract concept, it is worthwhile to go over the components of an MIS. To make it more real, use a company example and ask students what they think would be involved with each component. Possible examples are: a hotel chain such as Marriott, a fast food chain such as Taco Bell, or a periodical such as *People Magazine*. Indicate or generate class discussion to identify the various specific examples that would go in each of the components of an MIS. For instance, marketing intelligence might be a "clipping" service on relevant competitors, internal reports might be a salesperson's reports and notes, marketing research might be an annual customer satisfaction survey, and so forth.
- 9. The DSS concept is intuitive to students who are computer literate. They should know about spreadsheet programs, database managers, word processors, and graphics programs. Some will have experience with integrated "office" packages. Ask them what computer hardware and software tools, and what databases they think they will need to be good marketing decision makers.
- 10. There is a comment that technological advances such as the "information highway" will be important to marketing research, and especially MISs, in the future. Some students will have experience with GaleNet, ABI/Inform, Lexis-Nexis, or other such information highway services. Have them tell about the many different features of these services to help the other students understand the power of these systems.

# **ACTIVE LEARNING EXERCISES**

#### **Golf Anyone?**

What kinds of information would such a company provide? To get an idea and to better help you understand the role that marketing research plays, go to the website at www researchresourcecenter.com and go to DOWNLOADS. Here you can read some of the reports written by this research firm. Take a look at the contents of some of the reports. Can you think of the kinds of decisions that may be facilitated by having access to this information?

Students will find report on these topics:

- Perspectives golf facts and figures
- Consumer outlook
- Travel perspectives
- Profiles in golf
- Travel and Destination Study
- Women & Golf
- Women's golf market

There is just about everything you could want to know about golf, golfing, and golfers. Target market definitions are evident; trends in the sport and equipment, golfing travel and vacations are revealed, and even golf-related real estate information is there.

## **Create Your Own Intelligence System**

Thanks to the information age, Google Alert represents an efficient way for even small firms to maintain their own intelligence system.

The free trial recommended for students is an example of how a constant monitor will alert them to some news or "happening" on their topic. It works like a marketing intelligence system that watches everything on the Internet – news, blogs, videos, etc. – that pertains to the key work search topics.

## ANSWERS TO END-OF-CHAPTER QUESTIONS

1. What are some examples of professional organizations in the marketing research field?

Review question. Students must find the names of these organizations.

The majors ones noted are: the Marketing Research Association, CASRO, CMOR, IMRO, QCRA, and the American Marketing Association.

2. What is marketing? Explain the role of marketing research in the process of marketing management.

Review question. This question requires students to review the definition and role of marketing research.

The American Marketing Association has defined marketing as an organizational function and a set of processes for creating, communicating and delivering value to customers and for managing customer relationships in ways that benefit the organization and its stakeholders.

The main role of marketing research is to provide the necessary information to enable managers to market ideas, goods, and services *properly*.

3. Give some examples of products that have failed.

Review question. Students must find the names of these products identified in the chapter.

Two products described are: IncrEdibles and There's a Monster in My Room Spray. Marketing Research Insight describes these failures: Coca-Cola Blak, Ice Breakers Pacs, Coca-Cola C2, Wolfgang Puck Self-Heating Latte. Also mentioned: GrandKids and Delicare.

4. Why are philosophies important to decision makers? What is the marketing concept?

Review question. Students must relate the concept of a philosophy and the marketing concept.

A philosophy may be thought of as a system of values, or principles, by which you live. There are many different philosophies that managers may use to guide them in their daily decision making.

The marketing concept is a business philosophy that holds that the key to achieving organizational goals consists of the company being more effective than competitors in creating, delivering, and communicating customer value to its chosen target markets.

5. What is strategy and why is marketing research important to planners of strategy?

Review question: Students must relate what is strategy and why marketing research is important to strategy makers.

A marketing strategy consists of selecting a segment of the market as the company's target market and designing the proper "mix" of product/service, price, promotion, and distribution system to meet the wants and needs of the consumers within the target market.

Marketing research is a *process* that results in reporting information and that information can be used to solve a marketing problem such as determining price, deciding how to advertise, and so on. That is, marketing research is the basis of marketing strategy.

6. Define marketing research. Define market research.

Review question. Students should repeat the two definitions provided in the chapter.

The textbook definition: Marketing research is the process of designing, gathering, analyzing, and reporting information that may be used to solve a specific marketing problem.

The AMA definition: Marketing research is the function that links the consumer, customer, and public to the marketer through information-information used to identify and define marketing opportunities and problems; generate, refine, and evaluate marketing actions; monitor marketing performance; and improve the understanding of marketing as a process.

Market research refers to applying marketing research to a specific market area. One definition of market research is: The systematic gathering, recording, and analyzing of data with respect to a particular market, where market refers to a specific customer group in a specific geographic area.

7. What is the purpose of marketing research?

Review question. Students must relate the purpose as described in the chapter.

The purpose of marketing research is to link the consumer to the marketer by providing information that can be used in making marketing decisions.

8. Name the uses of marketing research.

Review question. This requires identifying and reporting the four uses.

The chapter describes four uses:

- Identify Market Opportunities and Problems
- Generate, Refine, and Evaluate Potential Marketing Actions
- Monitor Marketing Performance
- Improve Marketing as a Process
- 9. Which use of marketing research is considered basic research?

Review question. Students must identify that understanding, not specific problem solving, is the goal of basic research.

Basic research is conducted to expand our knowledge rather than to solve a specific problem. Research conducted to solve specific problems is called applied research; hence, "Improve Marketing as a Process" pertains to basic research.

10. Give two examples of the types of studies in each of the four classes of marketing research studies provided in this chapter.

Review question. This question requires students to study Table 1.1

A classification of studies is provided in Table 1.1. Students can provide examples from the table or come up with their own examples.

11. Distinguish among MIS (marketing information system), marketing research, and DSS (decision support system).

Review question. Students should be able to differentiate these two concepts.

A marketing information system (MIS) is a structure consisting of people, equipment, and procedures to gather, sort, analyze, evaluate, and distribute needed, timely, and accurate information to marketing decision makers, while a marketing decision support system (DSS) is defined as collected data that may be accessed and analyzed using tools and techniques that assist managers in decision making.

12. Explain why the phrase "specific problem" is important to the definition of marketing research and how this phrase relates to justifying the existence of marketing research in the MIS.

Review question. Students must find where marketing research is described as part of MIS.

A marketing information system (MIS) is a structure that includes marketing research (system). Marketing research is activated or used when the general information in the MIS gives rise to a specific question or problem to be researched "ad hoc."

13. Go to your library, either in person or online, and look through several business periodicals such as Advertising Age, Business Week, Fortune, and Forbes. Find three examples of companies using marketing research.

Application question. This question requires students to find marketing research examples.

This is an exercise for students to use library or online resources to find marketing research examples. There is no "right" answer here.

14. Select a company in a field in which you have a career interest and look up information on this firm in your library or on the Internet. After gaining some knowledge of this company, its products and services, customers, and competitors, list five different types of decisions that you believe this company's management may have made within the last two years. For each decision, list the information the company's executives would have needed in order to make these decisions.

Results will vary greatly here based on students' efforts and their career interests. Typical marketing decisions are: product development, price, promotion of all types, distribution, market targeting, going global, and facing competition.

15. Think of the following situations. What component of the marketing information system would a manager go to find the necessary information?

a. A manager of an electric utilities firm hears a friend at lunch talk about a new breakthrough in solar panel technology she read about in a science publication.

The marketing intelligence system should have information about new developments.

b. A manager wants to know how many units of three different products the company sold during each month for the past three years.

This information should be in the internal reports system.

c. A manager wants to estimate the contribution to company return on investment earned by ten different products in the company product line.

This would be in the realm of the decision support system.

d. A manager is considering producing a totally new type of health food. But, he would like to know if consumers are likely to purchase the new food, at which meal they would most likely eat the food, and how they would prefer the food to be packaged.

The marketing research system would address this in the form of a survey or some sort of marketing research effort.

16. Assume you are the manager of a successful marketing research firm located in Southern California. Discuss different types of research studies you could conduct for your clients.

Application question. Students must demonstrate that they understand the different types of studies.

The major types are identified in Table 1.1, "A Classification of Marketing Research Studies." Students can list and comment on:

Marketing opportunity analysis

Marketing problem analysis

Using marketing research to generate, refine, or evaluate any potential marketing action Monitoring performance such as sales, market share, satisfaction, etc.

Most likely, the function of "Improving marketing as a process," will not be included as this tends to be the domain of academic marketing researchers rather than practitioners who work with clients who have specific, applied research problems.

#### **CASE SOLUTIONS**

## Case 1.1 Marketing Research and the Movie Industry: Starlight Films

## **Case Objective**

This case illustrates how movie productions are investment decisions and how directors and producers must take into account the level of success expected for the movie. There is a great deal that is unknown about the audience's reaction to a movie. Consequently, marketing research can assist by providing information.

## **Answers to Case Questions**

1. Do you think Daniel Yarbrough needs to conduct some research? Why, or why not?

Because the purpose of marketing research is to "...link the consumer to the marketer by providing information that can be used in marketing decisions," this situation certainly calls for marketing research information. One use of marketing research is to identify marketing opportunities, and this is clearly an opportunity that merits research because of the huge investment that will be necessary to produce the movie.

- 2. Just based on the case material alone, list decisions that Yarbrough needs to make.
  - Whether or not to buy the movie manuscript?
  - How much to pay St. John for the manuscript?
  - Where to do the filming (studio or on location)?
  - What actors to hire?
  - How much to pay the actors?
- 3. For each decision you list in question 2, provide a description of the information you think Yarbrough needs in order to make the decision

Decision	Information Needed
Whether or not to buy the	Estimated sales (or popularity) of the movie
movie manuscript?	
How much to pay St. John for	Estimated sales of the movie
the manuscript?	Estimated sales of the movie
1	
Where to do the filming (studio	Effect of where the filming is done on the quality
or on location)?	of the movie translated into estimated sales for
	studio versus on-location
What actors to hire?	Added sales by type of actor such as how much a
	top box office lead actor(s) will bring in versus a
	lesser actor(s)
How much to pay the actors?	Profit estimated for type of actor such as how
	much a top box office lead actor(s) will bring in
	versus a lesser actor(s) – estimated sales-costs.

# **Case 1.2 Integrated Case: Advanced Automobile Concepts**

# **Case Objective**

This is the introduction to the integrated case that is used throughout the textbook. It describes how an automobile manufacturer that has built its reputation and profit on large automobiles senses a change in consumer sentiment as a result of environmental (global warming) and practical (high gasoline prices) factors. In addition to innovative new designs, the company may move to alternative fuel models. Whether or not prospective automobile buyers are willing to buy the new models is the issue.

## **Answers to Case Questions**

Should Nick Thomas use marketing research?

Yes, absolutely. This is a multimillion dollar investment that may take 3-5 years to implement. The marketing decision definitely needs general as well as specific information to be supplied by marketing research.

What components of ZEN's MIS will Nick Thomas need?

Nick will need all aspects of the MIS. Each component and its value to Nick at the present are listed below.

- Internal reports system useful to see past sales patterns by model, by country, and within countries such as by major cities or regions.
- Marketing intelligence system useful to gain an understanding of what competitors are doing, to learn about market trends, to see about global warming and/or gasoline issues and automobiles, and to understand consumer sentiments.
- Marketing decision support system depending on its features, perhaps use the tools to do "what if" scenarios such as drops in market share with key or all models; might be useful in doing break-even analyses of possible new models
- Marketing research system this is definitely a specific situation, and there will be a great need for marketing research on consumer attitudes toward global warming and alternative fuels as well as specific reactions to possible new automobile designs.

## **CHAPTER 2**

# THE MARKETING RESEARCH PROCESS

#### **LEARNING OBJECTIVES**

- To gain insights into marketing research by learning the steps in the marketing research process
- To understand the caveats associated with "a process"
- To know when marketing research may be needed and when it may not be needed
- To know which step is the most important in the marketing research process
- To have a framework for understanding the topics to be covered in the rest of this book
- To understand the research process in a case situation

#### **CHAPTER OUTLINE**

## **The Marketing Research Process**

The Process: 11 Steps

Step-by-Step Process: Some Words of Caution

Introducing "Where We Are"

Step 1: Establish the Need for Marketing Research

Company Policy Regarding the Use of Marketing Research

When Is Marketing Research Not Needed?

Step 2: Define the Problem

Step 3: Establish Research Objectives

Step 4: Determine Research Design

Step 5: Identify Information Types and Sources

Step 6: Determine Methods of Accessing Data

Step 7: Design Data-Collection Forms

Step 8: Determine Sample Plan and Size

Step 9: Collect Data

Step 10: Analyze Data

Step 11: Prepare and Present the Final Research Report

# **Some Final Comments on the Marketing Research Process**

#### **KEY TERMS**

11 Steps in the marketing research process

Exploratory research Descriptive research

Causal research Experiments

Secondary data Primary data

Sample plan Sample size

Nonsampling errors Data analysis

Data cleaning

## TEACHING SUGGESTIONS

- 1. This chapter is an overview of the steps in the marketing research process. One effective method of teaching these steps is to describe a real marketing research project. Instructors may want to send students to the data sources such as the library or Internet to conduct background research on colleges or universities such as the one described in the case.
- 2. Another approach is for instructors to use applied research they have done themselves, class projects done in prior classes, or some other real-world marketing research example with which they are familiar. Use the example to describe how each step was accomplished. Reading excerpts from final reports is an effective method. Plus, if you have a team project-based class, it will show students what the final product will look like.
- 3. If you have former students around who have participated in a marketing research project in a previous semester, consider inviting the team or members of the team to represent their project (assuming that they did a presentation previously). If the team used PowerPoint or some other presentation software, consider obtaining the file(s) at the end of the term either

for the former students to use or for you to use if the former students are not available in the present term.

- 4. Because the chapter is an overview of, basically, the rest of the textbook, it is important to avoid the temptation to go into detail on any one step. Use Figure 2.1 and present it as a flow chart of the steps in the marketing research process. Indicate that the steps are arranged in logical order (define the problem, set objectives, decide the method, collect the data, analyze, and write up). However, sometimes you will need to iterate back to previous steps in the process as discoveries are made in later steps. Also, the decisions made in each step will impact what will or will not be done in subsequent steps.
- 5. Here is scheme that might help students understand the various steps.

Phase: Figure out what to research

Step 1 Establish Need

Step 2 Define Problem

Step 3 Determine Research Objectives

Phase: Design the ways to do the research

Step 4 Determine Design

Step 5 Information Source

Step 6 Data Collection Method

Step 7 Questionnaire Design

Step 8 Sample Size and Plan

Phase: Gather data from respondents

Step 9 Collect Data

Phase: Generate findings and interpret them

Step 10 Analyze Data

Step 11 Write and Present Report

- 6. Connecting the marketing research process with the course syllabus and material coverage schedule is useful. One approach is to note the step and then indicate the chapters that will be covered and the weeks in the course schedule where those chapters are assigned. If you are using a team project-based approach to teaching the course, indicate when students will be taking up each step in the process as they work through their research projects.
- 7. A high involvement purchase such as an automobile is a good example of how marketing research uncovers important buying criteria in a specific market segment. Class discussion can be generated by asking students what features they desire in an automobile. Separate the class into benefits segments with respect to automobile ownership and operation. Some students will be entirely functional (get me there and back); some will be performance mongers (must go fast); while others will be aesthetic (want good style). Other market segments may emerge depending on the nature of the student population. The point is that marketing research can identify these salient buying criteria, and these, in turn, become the goals of redesign of the automobile to fit the needs of the target market segment.
- 8. If available, a marketing research practitioner is an effective guest at this point in the course. One approach is to have him/her describe the services of his company, slanted toward a full-

service operation, if possible. Another approach is to have him/her describe a typical day or week of his/her activities.

- 9. Many not-for-profit organizations have virtually no marketing research information whatsoever. Animal control centers are an example. Using an animal control shelter (formerly called the "dog pound") as and example of an industry with a huge problem, namely controlling the population of unwanted pets, but little or no marketing research, ask students what other situations they can think of that are parallel. Some possible not-for-profit organizations that might stimulate class discussion are:
  - Child adoption centers
  - Immunization services
  - Goodwill agencies

What marketing research is needed, and what questions can it address in each case?

#### **ACTIVE LEARNING EXERCISES**

## Access Secondary Data at the Bureau of the Census

There is an amazing amount of secondary data available to you online. And much of it is free. You can access secondary data at one of the most respected sources, the U.S. Government Bureau of the Census at www.census.gov. There you will find information about the 2010 U.S. Census, FedStats, the Economic Census of Business, trade data, and more. Go to the site and check out some of the sources of information, such as some of the reports on E-Stats, which provides data related to electronic commerce. Much of the data may be downloaded as either PDF or Excel files.

The E-Stats example (http://www.census.gov/eos/www/ebusiness614.htm) is just one of several information depositories available at www.census.gov. Here is a listing of the basic data available on the U.S. Census website main page.

<b>Information Type</b>	Specifics	
Census 2010	2010 Census · News · Become a Census Taker	
	American Community Survey · Census 2000	
People & Households	Estimates · Projections · Housing · Income   State Median	
	Income · Poverty · Health Insurance · International ·	
	Genealogy · More	
Business & Industry	Economic Census · Get Help with Your Form · Economic	
	Indicators · NAICS · Survey of Business Owners ·	
	Government · E-Stats · Foreign Trade   Export Codes ·	
	Local Employment Dynamics · More	
Geography	Maps · TIGER · Gazetteer · More	
Newsroom	Releases · Facts For Features · Minority Links ·	
	Broadcast & Photo Services · Embargo/News Release	
	Subscription · More	

# ANSWERS TO END-OF-CHAPTER QUESTIONS

1. What are the steps in the marketing research process?

Review question. This question requires students to observe the 11 steps.

The 11 steps are listed in the chapter outline shown previously.

2. Use an example to illustrate that the steps in the marketing research process are not always taken in sequence.

Review question. This is a caveat mentioned immediately after introducing the 11 steps in the section, "Steps Are Not Always Followed in Order."

The chapter notes that it is rare that a research project follows these steps in exact order. Rather, marketing research practice is more of an iterative process whereby a researcher, by discovering something in a given step, may retreat backwards in the process and begin again at another step. Also, any given research project may not involve each and every step shown.

Students may have difficulty coming up with examples because they have little knowledge of marketing research practice. Here are two examples of how the steps may not flow from 1 to 11.

**Example 1**. A specialty dress store owner wishes research to be done on her customers, but she has a poor record system. So it is decided that customers will be interviewed while they are visiting the store (sampling plan is decided before data collection form is designed).

**Example 2.** Large research projects often have more than on "study" embedded in them. One might be the background secondary data, another may be focus groups, and a third could be the actual survey, and a fourth may be tracking information to measure the outcome of the implemented actions. Sometimes phases of a study are done in parallel as the secondary data research could take place while the focus groups were conducted.

3. Explain why firms may not have a need for marketing research.

Review question. Students will need to examine the points under "When Marketing Research Is Not Needed."

There are four circumstances described in the chapter where a company may not need marketing research. These are: (1) information is already available, (b) the timing is wrong to conduct research (decision must be made now!), (c) funds are not available (we can't afford it), and (d) costs outweigh the value of the research. An example would be a small firm that "knows" its customers quite well, for example, a comic book shop, a baseball card vendor, or a teenager who mows several neighbors' yards during the summer. These cases would probably exemplify circumstances (a), (c), and (d).

On the other hand, the point illustrated by the Moore Research example at the beginning of the chapter is that marketing managers constantly need information. They need information to help them monitor their performance and to keep a finger on the pulse of the everchanging environment. Any number of examples may be appropriate. As a focal point for class discussion, ask students to indicate what "signals" would prompt them to think that they might have a need for marketing research if they were (1) the store manager of a Radio Shack, (2) the owner of a pet store, or (3) the president of the student government association.

4. Why is defining the problem the most important step in the marketing research process?

Review question. This question will require students to understand the points under "Define the Problem."

We note that firms may spend literally hundreds of thousands of dollars doing market research but, if they have not correctly identified the problem, those dollars will have been wasted. No matter how much money is thrown in, a problem that is not defined properly cannot be solved.

Although we do not describe the process in this chapter, problem definition involves: (a) specifying the symptoms, (b) itemizing the possible causes of the symptoms, and (c) listing the reasonable alternative courses of action that the marketing manager can undertake to solve the problem. These elements are elaborated on in Chapter 4.

As a class discussion, you can ask students what they do when they "bomb" an examination. Here are some possible causes and the probable course of action:

## Symptom: You did poorly on the first exam in the course!

Cause	<b>Corrective Action</b>
Don't have necessary background	Drop the course
Didn't study	Study next time
Crammed and froze up	Don't cram and rehearse
Ran out of time in exam	Watch the clock and pace

Each cause strongly implies the corrective action, and the corrective actions of other causes are inappropriate for the cause at hand. If the problem is misdefined, say the student thinks that he/she did not study hard enough when in truth he/she did not have the necessary background, studying harder for the next test will not make the poor grades go away. Using math classes (calculus that requires a background of algebra) might help to ground this example in students' minds. So problem definition is critical.

5. Explain why research objectives differ from the definition of the problem.

Review question. Students will need to appreciate the difference between the problem and research objectives associated to with the problem.

Research objectives state what the researchers must do in order to provide the information necessary to solve the problem. That is, research objectives provide pieces of information necessary to solve the problem. A key aspect of the research objectives step is the specification of the specific types of information useful to the managers as they grapple for a solution to the decision problem at hand.

6. What are the three types of research that constitute research design?

Review question. This question necessitates finding and describing the three types that are noted under "Determine Research Design."

The three types are as follows. Exploratory research is defined as collecting information in an unstructured and informal manner. Descriptive research designs refer to a set of methods and procedures that describe marketing variables. Last, causal designs allow researchers to isolate causes and effects.

7. Which part of the research process ensures that the sample is representative?

Review question. Students will need to examine the sample plan material.

The sample plan determines how representative the sample is of the population.

8. Which part of the research process ensures the accuracy of the results?

Review question. To answer this question, students must read the section on sample size carefully.

The sample size determines the accuracy of the sample results.

9. Do a search for marketing research firms on the Internet. Look through their Web pages. Can you identify examples of what they are presenting that relate to steps in the research process?

Application question. This exercise requires students to find marketing research companies and to examine their services and products listed and described on their web sites. If students need help, instructor can direct them to Quirk's Marketing Research Review web site (<a href="www.quirks.com">www.quirks.com</a>) which has a number of online directories that link to marketing research firms.

10. Look for examples of firms conducting a marketing research study in your library's online databases or on the Internet. Many examples are reported in periodicals such as Advertising Age, Marketing News, Business Week, and Forbes. Typically, these articles will describe a few details of the research project itself. Identify as many as possible of the steps in the marketing research process that are referred to in the articles you find.

Application question. Students are required to find marketing research examples in the press.

Alternative sources are Business Source Complete, ABI/Inform, or a similar online periodicals search engine.

11. Observe any business in your community. Examine what it does, what products or service it provides, its prices, its promotion, or any other aspect of its business. Try to determine whether or not you, if you managed the business, would have conducted research to determine the firm's products, and their design, features, prices, promotion, and so on. If you decide that you would not have conducted marketing research in a given area, explain why.

Application question. This exercise will require students to be vigilant of businesses close to them.

An alternative to individual student work is to team up students and to assign each team a business type such as convenience stores, supermarkets, dry cleaners, fast food, and so on.

#### CASE SOLUTIONS

# Case 2.1 Is There a Hybrid Automobile in Your Future?

## **Case Objective**

This case requires to students to think about how research information was generated. That is, students are asked to identify relevant steps and aspects of the marketing research process that pertain to the reported findings on hybrid automobile owners.

#### **Answers to Case Questions**

1. Think about what you have learned in this chapter regarding the steps in the marketing research process and of the several studies about hybrids described in the case, identify what you would imagine the marketing manager's problem was that made these studies necessary. (Think of how the information described above may be used by manufacturers of hybrid automobiles.)

Here are the key findings and some possible associated hybrid automobile marketing manager problems.

Finding	Possible marketing manager problem
Hybrid owners have higher incomes than	What is the income level target market for
the average car buyer.	hybrid car buyers?
Hybrid buyers are older than typical car	What is the age bracket target market for
buyers.	hybrid car buyers?
Hybrids are more popular in some states	How should we allocate inventory of our
than others.	hybrid models across the States?
The average education levels of hybrid	What is the education level target market
buyers are the highest of any other category	for hybrid car buyers.
of vehicle owners.	
Hybrid buyers have different attitudes and	What advertising appeals or promotional

lifestyles than other car buyers.	campaigns will appeal to hybrid car
	buyers?
Hybrid owners are very satisfied with their	Are hybrid car buyers satisfied with their
hybrid car purchases.	hybrid automobiles?

2. In terms of research design, how would you categorize the studies summarized in the case?

The findings in the case are reported with specific percentages and numbers, so they are the result of descriptive research which is quantitative in nature.

- 3. In terms of the sample plan used in these studies, how would you describe the sample selected for these studies?
- J.D. Power, Topline Strategy Group, Scarborough Research, and University of Michigan Transportation Institute are all reputable companies that perform, primarily, cross sectional surveys (descriptive research). The studies are most probably based on sample plans that guarantee representative samples of hybrid and well as non-hybrid automobile owners.
- 4. Given the findings reported in the case, describe what you think were some of the basic data analysis goals of the researchers involved in the studies.

The findings refer to percentages and averages. They also report comparisons of hybrid auto owners to non-hybrid auto owners. So, the analyses involved tabulations of means (arithmetic averages), frequencies, and percentages. There were also tests of statistical differences between means and percentages for hybrid auto owners versus non-hybrid auto owners.

## **Case 2.2 Integrated Case: Advanced Automobile Concepts**

## **Case Objective**

This case requires students to think about the integrated case in the context of research design and for specific steps in the marketing research process. By answering the questions, they should come to understand the undeniable need for primary information and a custom-made marketing research process.

#### **Answers to Case Questions**

1. Review the steps in the marketing research process. How would you classify the two sources of information Nick Thomas has consulted—trade publications and information from ZEN's Internal Reports System?

Both are secondary information. Students may be confused because the information is part of Zen's MIS, but neither the trade publication nor the internal sales reports were specifically collected for the purpose of designing hybrid automobiles.

2. Assume Nick Thomas decides that he must gather primary information to describe the strength of consumers' attitudes toward future oil price levels and global warming. Looking back at the 11-step process in this chapter, suggest what Nick may want to do in terms of the following: a. Which type of research design should Nick use?

He should use descriptive research because he is trying to measure the strength of consumers' attitudes. This implies a quantitative approach. Exploratory research such as focus groups will give him general feelings, but not attitude strength that would be measured on an attitude scale in the descriptive study.

b. How would you describe the type of information Nick must gather?

He must gather primary information, defined as information collected specifically for the problem at hand. He needs information about consumer beliefs, attitudes, intentions, reactions to alternative prospective hybrid automobile models.

c. What are some of the specific questions that Nick must ask of respondents.

This question will force students to think about the actual questions on the survey. It will help them link the questionnaire design step (Step 7: Design Data-Collection Form) to a manager's problems.

Nick's problems	Questions to ask
He must come up with new models that	How likely are you to purchase a hybrid
will appeal to the market.	automobile in the next x years?
He is concerned that the recent interest in	Do you believe that gasoline prices will
small, fuel-efficient cars will go away, as it	remain high for the foreseeable future?
has done in the past, when oil prices drop	
He also wonders if consumers' interest in	Will you be purchasing products that have
global warming is real enough that it will	lesser effect on global warming?
affect what they purchase.	

# d. In terms of a sample plan, who should Nick sample?

The textbook states that "marketing research studies are undertaken to learn about a population." Nick's population is those individuals who might purchase a hybrid automobile in the future. Because he does not know who might convert to a hybrid, especially if Zen develops some very appealing models, he should sample all potential automobile buyers.

Some students may note that the present hybrid buyers are upscale – income, education, life style, and older – and recommend surveying only upscale automobile buyers. This approach would not account for any buyers who turn to hybrids and/or alternative fuel models if gasoline prices skyrocket, global warming becomes more apparent, or if Zen comes up with innovative, unique, and appealing model designs.