

Student name: _____

Fatima, a college student, learns that their friend found an ingenious idea to solve their mathematical problem after they stopped trying too hard to think about it. Fatima uses this information to draw the broad conclusion that ideas arrive when one is not thinking about them. In this scenario, Fatima has formed this opinion based on _____.

rationalism

authority

intuition

empiricism

Liam reads a quote by a general practitioner that says that the COVID-19 pandemic was a zoonotic disease transmitted from bats to humans. Liam believes the quote to be true and forms their opinion based on this information. In this scenario, which of the following does Liam use to acquire information?

Rationalism

Authority

Empiricism

Intuition

Kaley, a student of cognitive psychology, always questions every piece of information they come across, finds and evaluates evidence related to it, and then forms an opinion. Based on these details, one can conclude that Kaley has a mindset of _____.

nativism

intuitiveness

obedience to authority

scientific skepticism

Oliver, a math student, acquires knowledge only after verifying and analyzing information rather than unquestioningly accepting any information presented to them. To do this, they first form a hypothesis, then gather data relevant to the hypothesis, and finally evaluate whether the data is consistent with the hypothesis. This scenario exemplifies _____.

generalization

randomization

operationalization

empiricism

A scientist at the College for the Study of Human Development is studying the impact of stress on physical health. They have consulted past research on this topic and must now move to the next step of the research process. This means that they should now _____.

obtain ethics approval

develop a research design

gather data

form a hypothesis

Siti, a clinical researcher, is studying the effects of a lack of sleep on behaviour. They consulted past research on this topic, developed a hypothesis, and designed a study. Which of the following is the immediate next step in the research process that they should take?

Obtain ethics approval

Restate the hypothesis

Read peer-reviewed scientific journals

Write a manuscript

Han, a researcher at the Canadian Office of Child Psychology, believes that scientific observations are systematic, structured, and evaluated objectively based on the accepted methods of science. This allows scientists to publish their research findings, which other scientists across

the world can then question. Which of the following characteristics of scientific enquiry does this scenario exemplify?

Disinterestedness

Communality

Organized skepticism

Universalism

Amahle, a teacher by profession, often talks about astrology and uses scientific terms to make their arguments seem compelling. However, they make claims that cannot be falsified, and the evidence they provide in support of their claims is often anecdotal. In this scenario, Amahle can most likely be called _____.

a pseudoscientist

a cognitive psychologist

an empiricist

an ethnographer

Denis, a researcher working at the University of Ontario, wanted to understand the prevalence of autism spectrum disorder (ASD) in Canada. To do so, they examined data from a mental health survey that had polled a representative sample of Canadians. This allowed Denis to accurately estimate the occurrence of ASD in Canada as well as its prevalence among women and men. Based on this data, Denis then detailed the nature of ASD, its prevalence, and how it varies in different groups. Which of the following goals of scientific research does this scenario exemplify?

Controlling behaviour

Predicting behaviour

Determining the causes of behaviour

Describing behaviour

Sana, a health researcher, recently completed a study on the impact of socioeconomic status on career success in later life. After completing the manuscript of the study, Sana submitted it for evaluation by other scientists in the scientific community so that they could recommend whether the research should be published. This scenario exemplifies the process of _____.

random assignment

generalization

peer review

operationalization

Students of social psychology at the Provincial School of Psychology are doing research on attention deficit hyperactivity disorder (ADHD) and the factors that lead to ADHD in people. After completing two studies, they write down the findings of each study in the form of the following statements:

"People who have ADHD are more inquisitive than people who do not have ADHD."

"The different behavioural habits of people with and without ADHD are caused by physiological factors."

Based on these findings, one can conclude that the goals of the first study and the second study were to _____.

predict and determine behaviours, respectively

describe and explain behaviours, respectively

explain and predict behaviours, respectively

predict and describe behaviours, respectively

Yukti, a researcher, claimed that listening to music while studying leads to poor performance on vocabulary tests. Yukti tested this hypothesis and found that when people listened to music while reading, they scored an average of 43 percent. On the contrary, people who did not listen to music scored an average of 56 percent. This scenario exemplifies _____.

ruling out alternative explanations

temporal precedence

scientific skepticism

covariation of cause and effect

A health researcher at the Yukon College of Psychology is simply observing people under stress in sociocultural situations. The researcher is also examining possible associations between stress and sociocultural behaviour. In this context, the researcher is conducting _____.

correlational research

an experiment

ethnographic research

a case study

Geeta, a researcher, is conducting a study on the impact of a lack of sleep on productivity. Geeta manipulates the sleeping behaviour of participants and then observes the effects of this manipulation on their productivity. In this context, Geeta is conducting _____.

field research

an experiment

correlational research

a case study

A social research student, Renu, is studying the impact of anxiety on academic performance in a controlled environment. In this scenario, Renu is conducting _____.

focus group research

lab research

field research

qualitative research

Sheikh, a research student, is interviewing people leaving a grocery store in Nova Scotia to ask their views on the increasing inflation in the province. In this scenario, Sheikh is conducting _____.

quantitative research

field research

lab research

focus group research

The public relations team at the Ontario Public Hospital wants to understand patient satisfaction levels with the services provided. To do this, the team administers a survey to 100 patients. The survey requires them to answer a set of questions based on a scale of possible responses from 1 to 7. The team then analyzes these responses to arrive at a conclusion. This scenario exemplifies _____.

quantitative research

focus group research

lab research

qualitative research

Jabari, a cognitive researcher, wants to understand the factors that influence consumer purchase decisions. To gather relevant information, Jabari interviews random people outside grocery stores in their city. Jabari notes down people's responses and later analyzes them to arrive at a conclusion. In this scenario, Jabari is conducting _____.

lab research

qualitative research

correlational research

quantitative research

Ren, a research scientist, recently completed a study on the influence of targeted marketing on consumer buying behaviour. Ren aimed at developing and testing theories about phenomena rather than devising a specific application of the theory. In this context, Ren completed _____.

an applied research study

an action research study

an integrated research study

a basic research study

Dembe is a researcher at the Canadian Office for the Study of Human Development. Dembe recently investigated a new way of treating people who have a fear of water. Dembe used virtual reality to provide a form of exposure therapy to real-world patients and then compared the efficacy of this approach with established treatment methods. The study found that virtual reality was more effective in reducing the fear of people compared to other methods. In this context, Dembe most likely conducted _____.

a pure research study

an integrated research study

a basic research study

an applied research study

Answer Key

Test name: Ch1 Algorithmic_Methods in Behavioural Research_4ce

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