

Sports Psych. Research Methods

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4. Chapter: Sports Psych. Research Methods

1. Sports Psych. Research Methods Questions

4.1.1. Philosophers 2 questions that are asked:

Author: [Dakota Bocan](#)

Philosophers 2 questions that are asked:

- 1. What is the nature of reality?
- 2. How can we best come to know reality?

Check the answer of this question online at [QuizOver.com](#):

Question: [Philosophers 2 questions that are asked: Dakota Bocan Sports Psych](#)

4.1.2. The 2 philosophical positions on: "How can we best come to know rea..."

Author: [Dakota Bocan](#)

The 2 philosophical positions on: "How can we best come to know reality?"

- 1. rationalism
- 2. empiricism

Check the answer of this question online at [QuizOver.com](#):

Question: [The 2 philosophical positions on: How can Dakota Bocan Sports Psych](#)

4.1.3. Rationalism:

Author: Dakota Bocan

Rationalism:

- we can know reality by thinking about it rationally & by using our logical thinking abilities.
rationalism influenced the importance of theory in scientific methods.

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Question: [Rationalism: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.4. Empiricism:

Author: Dakota Bocan

Empiricism:

- we can best know reality by experiencing it with our senses, and by experiencing what is real. empiricism influenced the importance of data collection in scientific methods.

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Question: [Empiricism: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.5. _____ & _____ go hand in hand

Author: Dakota Bocan

_____ & _____ go hand in hand

- data collection & theories

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Question: [go hand in hand Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.6. Parsimony:

Author: Dakota Bocan

Parsimony:

- this is one method or principle of science that relates to the relationship between data and theories.

If more than one theory explains the data, the most simple or parsimonious theory is chosen.

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Question: [Parsimony: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.7. The 2 philosophical positions for: "what is the nature of reality?"

Author: [Dakota Bocan](#)

The 2 philosophical positions for: "what is the nature of reality?"

- 1. the nature of reality is subjective
- 2. the nature of reality is objective

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Question: [The 2 philosophical positions for: what is Dakota Bocan Sports Quest](#)

4.1.8. Subjective:

Author: Dakota Bocan

Subjective:

- this position states that since we always interpret our raw perceptions of reality through our subjective experience, the subjective nature of reality is what is most important.

This position is sometimes labeled phenomenology.

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Question: [Subjective: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.9. objective:

Author: Dakota Bocan

objective:

- this position states that even though we can only know reality through our own unique subjective interpretation of it, objective reality is still out there and it is important.

The objective world affects us regardless of our interpretation of it.

This position is sometimes labeled empiricism.

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Question: [objective: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.10. Science makes several assumptions about the world. These include:

Author: [Dakota Bocan](#)

Science makes several assumptions about the world. These include:

- 1. there is an objective reality
- 2.it is important to understand & predict objective reality
- 3. that events are caused by other events

Check the answer of this question online at [QuizOver.com](#):

Question: [Science makes several assumptions about the Dakota Bocan Sports Quest](#)

4.1.11. Causality:

Author: Dakota Bocan

Causality:

- that is events are caused by other events

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Question: [Causality: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.12. _____ are an attempt to overcome this subjectivity in the asse...

Author: Dakota Bocan

_____ are an attempt to overcome this subjectivity in the assessment of objective reality.

How?

- Scientific methods

By: making repeated, specific, measurable observations across observers

Check the answer of this question online at QuizOver.com:

Question: [are an attempt to overcome this subjectivity Dakota Bocan Sports](#)

4.1.13. The making data or research more measurable and specific so that ot...

Author: [Dakota Bocan](#)

The making data or research more measurable and specific so that other scientists can repeat or replicate the study is known as:

- verification or repeated observations

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Question: [The making data or research more measurable Dakota Bocan Sports Quest](#)

4.1.14. Independent variable (IV):

Author: Dakota Bocan

Independent variable (IV):

- This is the variable that the researcher manipulates.

(sometimes the researcher does not have enough control to manipulate the IV & simply notices that this variable changes)

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Question: [Independent variable IV : Dakota Bocan Sports Psych. Research Quest](#)

4.1.15. Dependent Variable (DV):

Author: Dakota Bocan

Dependent Variable (DV):

- This is what is measured.

The researcher is interested with how the IV affects the DV.

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Question: [Dependent Variable DV : Dakota Bocan Sports Psych. Research Methods](#)

4.1.16. Operational Definitions:

Author: Dakota Bocan

Operational Definitions:

- defining a variable in a specific and objective manner by the methods used to measure it.

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Question: [Operational Definitions: Dakota Bocan Sports Psych. Research Methods](#)

4.1.17. The steps to the METHODS (Scientific Method):

Author: Dakota Bocan

The steps to the METHODS (Scientific Method):

- 1. verification/repeated observation
- 2. operational definitions
- 3. IV & DV
- 4. experimental control
- 5. types of designs

Check the answer of this question online at QuizOver.com:

Question: [The steps to the METHODS Scientific Method Dakota Bocan Sports Quest](#)

4.1.18. types of designs:

Author: Dakota Bocan

types of designs:

- 1. group/ Random assign.
- 2. quasi experimental (fold)
- 3. correlational
- 4. single-subject

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Question: [types of designs: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.19. Extraneous Variable:

Author: Dakota Bocan

Extraneous Variable:

- (confounding variables)

other variables besides the independent variable that may also affect the dependent variable.

scientists attempt to control for extraneous variables.

Check the answer of this question online at QuizOver.com:

Question: [Extraneous Variable: Dakota Bocan Sports Psych. Research Methods](#)

4.1.20. Random assignment:

Author: [Dakota Bocan](#)

Random assignment:

- equalizes the extraneous variables that can occur in each of the groups

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Question: [Random assignment: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.21. correlational:

Author: Dakota Bocan

correlational:

- assesses the relationship between variables.

no true manipulation of the IV; so causation cannot be determined

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Question: [correlational: Dakota Bocan Sports Psych. Research Methods Quest](#)

4.1.22. What are you trying to determine when doing a T-test/ANOVA:

Author: [Dakota Bocan](#)

What are you trying to determine when doing a T-test/ANOVA:

- trying to determine if the difference between the groups is greater than the difference within the group

Check the answer of this question online at [QuizOver.com](#):

Question: [What are you trying to determine when doing Dakota Bocan Sports Quest](#)

4.1.23. Single Subject design:

Author: [Dakota Bocan](#)

Single Subject design:

- 1 or few subjects (still use experimental form)

systematically measures behavior across time

always have a baseline condition

has repeated phase changes

EX: 1 type of design = a reversal ABAB design

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Question: [Single Subject design: Dakota Bocan Sports Psych. Research Methods](#)

4.1.24. quantitative studies:

Author: Dakota Bocan

quantitative studies:

- emphasize quantitative measurements & statistics

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Question: [quantitative studies: Dakota Bocan Sports Psych. Research Methods](#)

4.1.25. qualitative studies:

Author: Dakota Bocan

qualitative studies:

- assess the subjective experience of participants.

(in recent years qualitative methods have been advocated to compliment quantitative studies in order to provide a more complete picture)

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Question: [qualitative studies: Dakota Bocan Sports Psych. Research Methods](#)

4.1.26. Nomothetic Research:

Author: [Dakota Bocan](#)

Nomothetic Research:

- uses group design & group statistic typically based upon the mean of the group .

quantitative (empiricism)

advantage of the study is that results can generate from a sample to a population of which it is representative.
(generalization)

disadvantage is that individual differences are averaged & lost in the mean.

Check the answer of this question online at QuizOver.com:

Question: [Nomothetic Research: Dakota Bocan Sports Psych. Methods Quest](#)

4.1.27. Ideographic Research:

Author: [Dakota Bocan](#)

Ideographic Research:

- studies on individual intensely across time in order to understand the uniqueness of the individual.

advantage is uniqueness of the individual

qualitative

disadvantage is limited generalizability of results

Check the answer of this question online at QuizOver.com:

Question: [Ideographic Research: Dakota Bocan Sports Psych. Methods Quest](#)