

7.1 Motivation, stress and evidence in sport

Name: _____ Class: _____ Date: _____

Total: 10 marks

KEY WORDS coping • motivation

Objective

Motivation, stress and evidence in sport. Supported SL concept preparation; original classroom practice, not an official IB paper or assessed learner work.

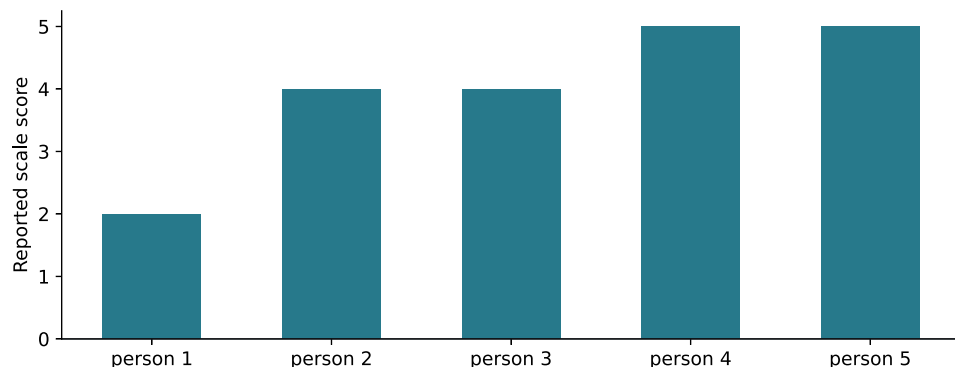
1 Key knowledge and worked examples

■ What would explain this observation?

- Two athletes can react differently to the same competition. Their appraisal, experience and **coping** strategies affect the response.
- Start with a prediction. State the quantities or features you would compare, then decide what evidence could distinguish two explanations.

■ Build the model

- Motivation** concerns initiation, direction and persistence of behaviour. Stress depends partly on the relationship between perceived demands and perceived resources. Arousal and anxiety are related but distinct constructs.
- motivation: Processes influencing initiation and persistence; coping: Strategies used to manage demands.



■ Choose evidence that can test it

- A self-report scale measures reported experience under its design. It does not diagnose a disorder or establish a universal relationship between arousal and performance. Analyse within-person and between-person variation separately.
- Use anonymous voluntary questionnaires approved by the school, avoid sensitive personal disclosure, and allow withdrawal. Compare the same task and time point, define the scale and explain its limitations.

■ Work from known quantities

- State the known values and their units. Choose the relation because its assumptions fit this case, then rearrange before substitution.
- Known: reported scores are 2, 4, 4, 5 and 5. Mean = $\text{sum}/\text{count} = 20/5 = 4$. Range = maximum-minimum = $5-2 = 3$. The mean summarizes this sample and scale, without proving why the participants differ.

Example:

Scores are 3, 5, 5 and 7. Find the mean. Use the same sequence: known quantities → model → relation → substitution → unit and interpretation.

■ Check the conclusion and its limits

- Correlation does not prove that stress caused a performance result. Students should not induce distress to investigate coping.
- Return to the original observation. Explain what the result supports, which conditions it assumes, and one way to test a competing explanation.

Warn:

A self-report stress score is a medical diagnosis. This claim is false: Correlation does not prove that stress caused a performance result. Students should not induce distress to investigate coping.

Key:

Motivation, stress and evidence in sport: A self-report scale measures reported experience under its design. It does not diagnose a disorder or establish a universal relationship between arousal and performance. Analyse within-person and between-person variation separately.

2 Practice

2.1 Which classroom approach is ethically appropriate? Choose one answer.

- A Induce distress deliberately
- B Use an approved voluntary anonymous questionnaire
- C Diagnose participants from one scale score

2.2 Scores are 3, 5, 5 and 7. Find the mean. Show the relation, substitution and units.

2.3 Decide whether this claim is true and justify: A self-report stress score is a medical diagnosis.

2.4 Processes influencing initiation and persistence: write the technical term.

3 Exam-style questions

3.1 Fictional scores are 2,4,6,8 and 4,4,6,6. Compare means and ranges. Why does equal mean not show equal responses or a cause?