

Chapter 4 Literacy

Use the terms to answer or complete each sentence. Terms may be used more than once.

advertisements bias compare comparisons correlation critical analysis critical thinking descriptive first gross domestic product human error	leading mail-in mathematical measurement bias median net worth non-response bias per capita percent change percentile percentile rank	response bias sample sampling bias second statistical bias statistical index stock index study telephone third weighted mean
human error	, percentile rank	weighted mean
index	real value	when
inferential	reliable	

- 2. A ______ involves analysing a claim made by the author of a study that is meant to be supported by statistical data.
- 3. A ______ may result from using a non-random sampling method or using a sample that is too small.
- 4. An ______ is an indicator of the level of related components.

5. An expression that means "for each head." _____

- 6. ______ is total assets (wealth) minus total liabilities (debt).
- 7. When critically analysing a statistical claim, it is important to consider whether the methods introduce any _____.
- 8. Bias that occurs in a survey when survey participants purposely give false or misleading answers.



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9.	The percent of the population with a score less than a specific score.		
10.	A mean in which each component has a different weighting factor.		
11.	It is important to useto understand how the media might be manipulating statistics for their own purposes.		
12.	In a survey, a question is one that causes respondents to favour a certain answer.		
13.	When critically analysing statistics, it is important to consider whether the sources may be		
14.	Ais a weighted mean used to show change over time.		
15.	•. Per capita figures can be used to make		
16.	The of an investment is the value of the investment less the effects of inflation.		
17.	The is the total value of all goods and services produced in an economy.		
18.	. Bias that occurs in a survey that contains a leading question.		
19.	often use statistical claims to convey a message.		
20.	A number between 1 to 99 indicating the percent of the population with a score less than or equal to a specific value.		
21.	measures a change in value over time.		
22.	The 25th, 50th, and 75th percentiles are commonly known as the,,, and,		
23.	In statistics,is the average amount or value per person.		
24.	The 50th percentile is also the		



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- 25. Bias that occurs in a survey when the measurement technique has errors which cause unreliable results.
- 27. When calculating the values of a statistical ______, change is measured with respect to a base period.
- 28. Bias that occurs in a survey if there is a low overall response rate (below 80%).
- 29. When critically analysing statistical claims, it is important to consider ______ the study was conducted.
- 30. A ______ is a weighted mean of the prices of a group of stocks selected to represent all the stocks from a specific stock market.
- 31. External influences that may affect the accuracy of statistics.
- 32. When critically analysing statistics, it is important to consider whether an appropriate ______ was used.
- 33. An index is often used to ______ changes in values over time.
- 34. When critically analysing statistics, it is important to consider who conducted the
- 35. A ______ is calculated by multiplying each value by its weighting factor and then dividing by the sum of the factors.
- 36. ______ surveys tend to have a high level of non-response bias compared to ______ surveys.
- 37. Bias that occurs when the sample does not reflect the population being studied.
- 38. Measurement bias can result from improper ______ of measuring equipment.



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39. Measurement bias can result from	in reading and recording measurements.	
40. Bias that occurs in a survey when specific groups are under represented in a sample due to low rates of participation.		
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42. Statistics can be categorized as or	statistics.	
43. When critically analysing statistics, it is important	to check thatterms	

are used properly.





Chapter 4 Literacy Answers

- 1. correlation
- 2. critical analysis
- 3. sampling bias
- 4. index
- 5. per capita
- 6. net worth
- 7. bias
- 8. response bias
- 9. percentile rank
- 10. weighted mean
- 11. critical thinking
- 12. leading
- 13. reliable
- 14. statistical index
- 15. comparisons
- 16. real value
- 17. gross domestic product
- 18. response bias
- 19. advertisements
- 20. percentile
- 21. percent change
- 22. first, second, third

- 23. per capita
- 24. median
- 25. measurement bias
- 26. descriptive
- 27. index
- 28. non-response bias
- 29. when
- 30. stock index
- 31. statistical bias
- 32. sample
- 33. compare
- 34. study
- 35. weighted mean
- 36. mail-in, telephone
- 37. sampling bias
- 38. calibration
- 39. human error
- 40. non-response bias
- 41. inferential
- 42. descriptive, inferential
- 43. mathematical

