A valid conclusion is one that is supported by <u>unbiased</u> data that has been interpreted properly.

Statistical Bias can occur in the <u>collecting</u> of the data and/or in the analyzing and reporting of the data.

Biases in Collecting Data

Statistical bias occurs when a systemic error contributes to the statistics of a sample being different from those of the population being sampled.

Sampling Bias
Example – a pollster in a mall randomly selected people to interview as they walked by. See Ex. 1 Pg. 23
on-Response Bias
Example – a mail-in survey was sent to randomly selected households to ask them the opinions about a new playground in the neighbourhood.
See Ex. 2 Pg. 23
easurement Bias
Example – when measuring the height of students in our class some students mistaken measured in inches instead of in cm.
See Ex. 3 Pg. 23
esponse Bias
A "leading" survey question can also result in response bias. Example – a class of grade 9 students was asked by their gym teacher to put up their hands if they have had a date with a girl.
See Ex. 4 Pg. 23

Practice: Pgs. 239-243 # 1-6, 9, 12, 13 Answers on pg. 550 QUIZ NEXT CLASS

Read Page 239 "Key Concepts" and Answer "Discuss the Concepts"