



14) An athlete runs 100 meters in 10.7 seconds.

A) Continuous

B) Discrete

15) The number of cars passing a busy intersection between 4:30 P.M. and 6:30 P.M. on a Monday is 2,200.

A) Discrete

B) Continuous

16) The average speed of cars passing a busy intersection between 4:30 P.M. and 6:30 P.M. on a Friday is 32.3 mi/h.

A) Continuous

B) Discrete

Determine which of the four levels of measurement (nominal, ordinal, interval, ratio) is most appropriate.

17) The temperatures of eight different plastic spheres.

A) Ratio

B) Interval

C) Ordinal

D) Nominal

18) The sample of spheres categorized from softest to hardest.

A) Ratio

B) Ordinal

C) Nominal

D) Interval

19) Salaries of college professors.

A) Interval

B) Ordinal

C) Ratio

D) Nominal

20) Survey responses of "good, better, best".

A) Ratio

B) Nominal

C) Interval

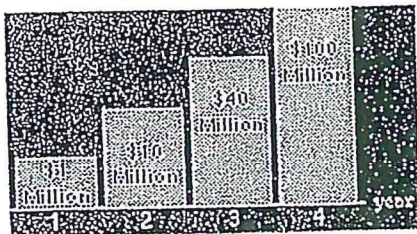
D) Ordinal

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Identify the abuse of statistics.

21) Criticize this statement: "Last year, Americans consumed 121,358,399,451 gallons of gasoline."

22) The graph shows the increases in a certain expenditure over a four-year period. What is wrong with the graph?



23) You plan to make a survey of 200 people. The plan is to talk to every 10th person coming out of the school library. Is there a problem with your plan?

24) An airline company advertises that 100% of their flights are on time after checking 5 randomly selected flights and finding that these 5 were on time.

25) A researcher wished to gauge public opinion on gun control. He randomly selected 1000 people from among registered voters and asked them the following question "Do you believe that gun control laws which restrict the ability of Americans to protect their families should be eliminated?" Identify the abuse of statistics and suggest a way the researcher's methods could be improved.