

Statistical Reasoning for Everyday Life
**Test Bank for Statistical Reasoning for Everyday Life 5th
Edition Bennett Briggs Triola 9780134494043**

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Chapter 2 (Measurement in Statistics) Exam, form A

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

For problems 1 and 2, identify the variables as either qualitative or quantitative.

- 1) The state in which people live.
A) Qualitative
B) Quantitative
- 2) The size of your house.
A) Qualitative
B) Quantitative

For problems 3 and 4, identify the number as either continuous or discrete.

- 3) The average height of all freshmen entering college in a certain year is 68.4 inches.
A) Continuous
B) Discrete
- 4) The number of eggs in a goose nest is 8.
A) Continuous
B) Discrete
- 5) Temperatures in degrees Fahrenheit of the ocean at various depths.
A) Ratio
B) Interval
C) Ordinal
D) Nominal
- 6) Two statements are given below. Select the statement for which a ratio of the measurements is meaningful. State “Neither” or “Both” if appropriate.
 1. Kasheta ran the race in 22.3 sec, and Louisa ran the same race in 26.4 sec.
 2. Juan gets out of school at 2:45 PM, and Aito gets out of school at 3:15 PM.A) Kasheta ran the race in 22.3 sec, and Louisa ran the same race in 26.4 sec.
B) Neither
C) Both
D) Juan gets out of school at 2:45 PM, and Aito gets out of school at 3:15 PM.

Statistical Reasoning for Everyday Life

- 7) Select the description that most completely classifies the given variable.
Soft drink sizes: small, medium, large
- A) Qualitative, nominal B) Quantitative, ordinal
C) Quantitative, ordinal, discrete D) Qualitative, ordinal
- 8) A digital scale reads 0.01 g when it is empty. Identify the potential error in the measurements made on this scale as random or systematic.
- A) Random B) Systematic
- 9) Totals are determined by rounding to tenths. Identify the potential error as random or systematic.
- A) Random B) Systematic
- 10) The results of a poll are stated as follows: "Based on a survey of 156 randomly selected students, 90% of the student body of 2870 students agree that no student should have to take final exams in two consecutive exam periods." If 2578 students actually agree, then what is the absolute error in the reported result?
- A) 5 students B) 287 students
C) 0.17% D) 292 students
- 11) A state trooper's radar indicates that your car is traveling 70 miles per hour; you had the cruise control set at 65 mph. What is the relative error?
- A) 5 mph B) 7.1% C) 7.7% D) 0.929

- 12) According to a specification, the nominal length of a particular manufactured part is 5.4523 cm. Quality control randomly selects one of the parts, and four different quality-control technicians measure its length. Their measurements are 5.3234 cm, 5.11259 cm, 5.351 cm, and 5.45 cm. Which measurement is the most accurate?
 A) 5.3234 cm B) 5.11259 cm C) 5.351 cm D) 5.45 cm
- 13) Compared with a metric scale that has grams as the smallest division, a scale with milligrams as the smallest division
 A) will guarantee measurements that are more accurate, but not necessarily more precise.
 B) will guarantee measurements that are more precise and more accurate.
 C) will guarantee measurements that are more precise, but not necessarily more accurate.
 D) will not guarantee measurements that are more accurate or more precise.
- 14) In a survey of 500 human resource professionals, 90% said that the appearance of a résumé is very important for a good first impression. What is the actual number of respondents who said this?
 A) 45 respondents.
 B) 90 respondents.
 C) 400 respondents.
 D) 450 respondents.
- 15) Convert $\frac{3}{96}$ to a percent.
 A) 31.25% B) 0.3125% C) 3.125% D) 0.03125%
- 16) Convert 0.45 to a percent.
 A) 45% B) 0.0045% C) 4.5% D) 0.45%
- 17) Humanities majors spend an average of \$115 per course on books. Mathematics majors spend an average of \$70 per course on books. What is the percent difference between the two amounts relative to the amount for mathematics majors (round to the nearest percent)?
 A) 64% B) 39% C) -64% D) -39%
- 18) Boys spend an average of \$400 on back-to-school clothes. Girls spend an average of \$1032. How much less is the boy's average expenditure, relatively, than the girl's expenditure (round to the nearest percent)?
 A) 61% B) 158% C) -158% D) 39%
- 19) Suppose that the cost of a statistics text was \$50 in 1995 and is \$100 in 2016. What is the 'Statistics Text Index' number, rounded to the nearest tenth, for the 2016 edition with the 1995 price as the reference value?
 A) 20.0 B) 200.0 C) 50.0 D) 2.0
- 20) A part of the Consumer Price Index (CPI) is given below:
- | Year | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| CPI | 53.8 | 82.4 | 107.6 | 130.7 | 152.4 | 172.2 | 195.3 | 218.1 | 237.0 |
- Suppose a week's groceries in 1980 cost \$70. What would these groceries cost, to the nearest dollar, 10 years later?
 A) \$38 B) \$44 C) \$111 D) \$129

Statistical Reasoning for Everyday Life

Chapter 2 (Measurement in Statistics) Exam, form B

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

For problems 1 and 2, identify the variable as either qualitative or quantitative.

- 1) A person's height in feet.
A) Qualitative
B) Quantitative
- 2) A person's political affiliation.
A) Qualitative
B) Quantitative

For problems 3 and 4, identify the number as either discrete or continuous.

- 3) The number of books available from Amazon.com is 227,362.
A) Discrete
B) Continuous
- 4) An athlete runs 100 meters in 10.7 seconds.
A) Discrete
B) Continuous
- 5) Determine which of the four levels of measurement is most appropriate.
Ages of survey respondents.
A) Ratio
B) Interval
C) Ordinal
D) Nominal
- 6) Two statements are given below. Select the statement for which a ratio of the measurements is meaningful. State "Neither" or "Both" if appropriate.
 1. Kim pulled weeds at the rate of twenty weeds per minute, and Jorge pulled 18 weeds per minute.
 2. Anna Lisa swam 45 yards underwater, and Marissa swam 35 yards underwater.A) Anna Lisa swam 45 yards underwater, and Marissa swam 35 yards underwater.
B) Kim pulled weeds at the rate of twenty weeds per minute, and Jorge pulled 18 weeds per minute.
C) Neither
D) Both
- 7) Select the description that most completely classifies the given variable.
Preference ratings: as in "Rate the item of most importance to you a 5 and that of least importance a 1"
A) Qualitative, ordinal
B) Quantitative, ordinal
C) Quantitative, ordinal, discrete
D) Qualitative, nominal
- 8) A computer uses voice recognition software. Identify a misinterpreted word as a systematic or random error.
A) Systematic
B) Random
- 9) Identify the potential error in recording arrival times for interstate highway trips as random or systematic.
A) Systematic
B) Random
- 10) The size of an e-mail file is stated as 210 kB, but the file size is actually 220.5 kB. What is the absolute error?
A) 5%
B) 10%
C) 10.5 kB
D) -10.5 kB
- 11) The pickup time of an answering machine is set at 5 rings, but the machine picks up after 4 rings. What is the relative error?
A) -1 ring
B) 4 to 6 rings
C) -25%
D) -20%
- 12) The approximate value of π is 3.1415927. Which of the following experimentally determined values is the most precise?
A) 3.14
B) 3.247
C) 3.412114
D) 3.3245

- 13) Compared with a stopwatch that gives readings as $__\ . __\$ seconds (e.g. 23.5 seconds), a stopwatch that gives readings as $__\ . ___\$ seconds (e.g. 23.54 seconds) is
- more accurate, but not necessarily more precise.
 - more precise and more accurate.
 - not necessarily more precise or more accurate.
 - more precise, but not necessarily more accurate.
- 14) In a survey of 500 human resource professionals, 80% said that the appearance of a resume is very important for a good first impression. What is the actual number of respondents who said this?
- 45 respondents
 - 80 respondents
 - 400 respondents
 - 450 respondents
- 15) Convert 13% to decimal form.
- 0.013
 - 0.13
 - 1.3
 - 13
- 16) Convert 5.65 to a percent.
- 565%
 - 5.65%
 - 0.565%
 - 56.5%
- 17) Research shows that 14% of 6th graders in K–6 schools have tried cigarettes and 61% of 7th graders in 8–9 or 7–9 middle schools have tried cigarettes. What is the absolute increase, to the nearest percent?
- 77%
 - 336%
 - 436%
 - 47%
- 18) Research shows that 14.3% of persons 20–25 years old vote and 59.9% of persons 60–65 years old vote. What is the absolute increase from the younger group to the older group, to the nearest point?
- 76 points
 - 319 points
 - 46 points
 - 46 points
- 19) Suppose that the cost of a statistics text was \$55 in 1995 and is \$90 in 2016. What is the ‘Statistics Text Index’ number, rounded to the nearest tenth, for the 1995 edition with the 2016 price as the reference value?
- 0.6
 - 163.6
 - 1.6
 - 61.1
- 20) A part of the Consumer Price Index (CPI) table is given below:
- | Year | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| CPI | 53.8 | 82.4 | 107.6 | 130.7 | 152.4 | 172.2 | 195.3 | 218.1 | 237.0 |
- Suppose an actuary’s salary was \$86,000 in 1995. What would the salary have to have been in 1975 if it had just kept up with inflation (round to the nearest \$1000)?
- \$244,000
 - \$30,000
 - \$58,000
 - \$128,000

Statistical Reasoning for Everyday Life C) 2 pills D) 6.7%

Chapter 2 (Measurement in Statistics) Exam, form C

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

For problems 1 and 2, identify the variable as either quantitative or qualitative.

- 12) The approximate value of π is 3.1415927. Which of the following experimentally determined values is the most accurate?
 A) 3.14 B) 3.3245 C) 3.412114 D) 3.247
- 13) Which of the following statements is correct?
 A) "Precise measurement" means the same thing as "accurate measurement."
 B) An accurate measurement must be precise.
 C) A precise measurement must be accurate.
 D) A precise measurement is not necessarily accurate.
- 14) In a survey of 500 human resource professionals, 70% said that the appearance of a resume is very important for a good first impression. What is the actual number of respondents who said this?
 A) 35 respondents
 B) 70 respondents
 C) 350 respondents
 D) 400 respondents
- 15) Convert 1779% to decimal form.
 A) 177.9 B) 17.79 C) 1.779 D) 177,900
- 16) Convert 0.0195% to decimal form.
 A) 0.000195 B) 1.95 C) 0.195 D) 19.5
- 17) A professor's checking account balance a year ago was \$1470. Currently, it is \$1040. Calculate the relative percentage change to the nearest percentage point.
 A) -41% B) 29% C) 41% D) -29%
- 18) Research shows that 15.5% of persons 20–25 years old vote and 63.5% of persons 60–65 years old vote. What is the relative change from the younger group to the older group, to the nearest percent?
 A) -48% B) 76% C) 310% D) 48%
- 19) Suppose that the cost of a statistics text was \$60 in 1995 and is \$90 in 2016. What is the 'Statistics Text Index' number, rounded to the nearest tenth, for the 2016 edition with the 1995 price as the reference value?
 A) 150 B) 66.7 C) 100.0 D) 50
- 20) A part of the Consumer Price Index (CPI) table is given below:

Year	1975	1980	1985	1990	1995	2000	2005	2010	2015
CPI	53.8	82.4	107.6	130.7	152.4	172.2	195.3	218.1	237.0

What is the percent increase of a market basket of goods from 1975 to 1985? Round the percent to the nearest integer.

- A) 100% B) 200% C) 54% D) 50%

- 12) Avogadro's number is the number of molecules of a substance in a quantity of the substance measured in grams equal to its atomic weight. It can only be determined by chemistry or physics experiments. It is named after Amadeo Avogadro, who postulated in 1811 that this number was the same for all substances. Various values for this constant have been determined experimentally. Some of them are 6.02×10^{23} , 6.022×10^{23} , and $6.02214199 \times 10^{23}$. The 10^{23} means that you have to move the decimal point 23 places to the right. Which of these values is the most accurate?
 A) 6.02×10^{23} B) 6.022×10^{23} C) $6.02214199 \times 10^{23}$ D) We can't tell.
- 13) Compared to a scale that measures your weight to tenths of a pound, a scale that measures your weight to the nearest ounce is
 A) more precise and more accurate.
 B) less precise, but may be more accurate.
 C) more precise, but may be less accurate.
 D) less precise and less accurate.
- 14) In a survey of 500 human resource professionals, 60% said that the appearance of a resume is very important for a good first impression. What is the actual number of respondents who said this?
 A) 30 respondents
 B) 60 respondents
 C) 300 respondents
 D) 360 respondents
- 15) Convert 112.463% to decimal form.
 A) 1.12463 B) 11.2463 C) 1124.63 D) 11246.3
- 16) Convert 0.1963 to a percent.
 A) 0.001963% B) 0.01963% C) 1.963% D) 19.63%
- 17) After a year of weight training, Harold's weight changed from 172 pounds to 185 pounds. What is his percent increase in weight to the nearest tenth?
 A) 13.0 pounds B) 8.0% C) 7.6% D) 7.0%
- 18) On September 28, 2012, the average price of a gallon of regular unleaded gas in Eau Claire, Wisconsin, was \$3.89 while in Appleton, Wisconsin, the average price was \$3.74. What is the percentage difference in price in Appleton (to the nearest tenth of a percent) relative to the price in Eau Claire?
 A) -3.9% B) 3.9% C) -4.0% D) 4.0%
- 19) Suppose that the cost of a statistics text was \$45 in 1995 and \$76 in 2016. What is the Statistics Text Index number, rounded to the nearest tenth, for the 1995 edition with the 2016 price as the reference value?
 A) 0.6 B) 5.9 C) 59.2 D) 168.9
- 20) A part of the Consumer Price Index (CPI) table is given below:

Year	1975	1980	1985	1990	1995	2000	2005	2010	2015
CPI	53.8	82.4	107.6	130.7	152.4	172.2	195.3	218.1	237.0

Suppose that a statistician's salary was \$64,000 in 1985. What would the salary have to be in 2005 to keep up with inflation (rounded to the nearest \$1000)?

- A) \$125,000 B) \$69,000 C) \$116,000 D) \$35,000