

Chapter 1 - Getting Started

1. Data may be classified by one of the four levels of measurement. What is the name of the lowest level?
- interval
 - nominal
 - ordinal
 - ratio
 - simple

ANSWER: b

POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: False

LEARNING OBJECTIVES: 13.1 - Explain why thinking that children are children first, even if they have conditions that affect their growth and nutritional requirements, suits child developmental milestones.

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2. Identify the variable in the information below.

What is the average miles per gallon (mpg) for all new cars? Using Consumer Reports, a random sample of 35 new cars gave an average of 21.1 mpg.

- number of new cars surveyed
- cars
- miles
- miles per gallon
- gallons

ANSWER: d

POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: True

LEARNING OBJECTIVES: 13.2 - Identify the common nutrition problems in children with special health care needs and chronic conditions.

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3. Identify whether the variable in the information below is qualitative or quantitative.

Government agencies carefully monitor water quality and its effect on wetlands (Reference: Environment Protection Agency Wetland Report EPA 832-R-93-005). Of particular concern is the concentration of nitrogen in water draining from fertilized lands. Too much nitrogen can kill fish and wildlife. Twenty-eight samples of water were taken at random from a lake. The nitrogen concentration (milligrams of nitrogen per liter of water) was determined for each sample.

- a. quantitative
- b. qualitative
- c. qualitative as well as quantitative
- d. neither qualitative nor quantitative
- e. Information does not have any variable.

ANSWER: a

POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: True

LEARNING OBJECTIVES: 13.3 - Describe how a growth assessment is modified in children with special health care needs.

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4. Identify the implied population in the information below.

Government agencies carefully monitor water quality and its effect on wetlands (Reference: Environment Protection Agency Wetland Report EPA 832-R-93-005). Of particular concern is the concentration of nitrogen in water draining from fertilized lands. Too much nitrogen can kill fish and wildlife. Twenty-eight samples of water were taken at random from a lake. The nitrogen concentration (milligrams of nitrogen per liter of water) was determined for each sample. The variable in this information is nitrogen concentration (mg nitrogen/1 liter of water).

- a. number of fish
- b. samples of water taken at random
- c. none of these choices
- d. nitrogen concentration (mg nitrogen/1 liter of water) in the entire lake
- e. samples of water taken at random

ANSWER: d

POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: True

LEARNING OBJECTIVES: 13.4 - Characterize nutrition recommendations for children who are underweight and overweight, or have difficulties meeting known nutrient requirements.

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5. Identify whether the variable in the information below is qualitative or quantitative.

Government agencies carefully monitor water quality and its effect on wetlands (Reference: Environment Protection Agency Wetland Report EPA 832-R-93-005). Of particular concern is the concentration of nitrogen in water draining from fertilized lands. Too much nitrogen can kill fish and wildlife. Twenty-eight samples of water were taken at random from a lake. The nitrogen concentration (milligrams of nitrogen per liter of water) was determined for each sample. The variable in this information is nitrogen concentration (mg nitrogen/1 liter of water).

- a. quantitative
- b. qualitative
- c. qualitative as well as quantitative
- d. neither qualitative nor quantitative
- e. none of these choices

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multi-Mode (Multiple choice)
HAS VARIABLES: True
LEARNING OBJECTIVES: 13.3 - Describe how a growth assessment is modified in children with special health care needs.
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6. Identify the level of measurement corresponding to the data "Cost of rod and reel" associated with fishing.

- a. interval
- b. none of these choices
- c. ratio
- d. nominal
- e. ordinal

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multi-Mode (Multiple choice)
HAS VARIABLES: True
LEARNING OBJECTIVES: 13.5 - Describe the eating and feeding problems of children with special health care needs and chronic conditions.
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7. Use a random-number table to get a list of 10 random numbers between 1 and 99 beginning at row 2, block 2.

65321	85623	10204	50218	20321	22315
98532	91972	39800	45670	20510	10451
92012	59826	35456	79289	91483	29754
45652	98653	45863	36963	15326	78952
45678	10100	91251	37041	13712	14672

- a. 91 97 23 98 45 67 20 5 10 45
- b. 91 97 23 98 67 2 5 10 10
- c. 91 97 23 98 45 67 2 5 10 45
- d. 91 97 32 98 45 67 2 5 10 45
- e. 91 97 32 98 45 67 2 50 10 45

ANSWER: c

POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: True

LEARNING OBJECTIVES: 13.6 - Compare use of dietary and herbal remedies in children with and without special health care needs.

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8. Use a random-number table to simulate the outcomes of tossing a quarter 12 times beginning at row 1, block 4. Assume that the quarter is balanced (i.e., fair) and an even digit is assigned to the outcome heads (H) and an odd digit to the outcome tails (T).

65321	85623	10204	50218	20321	22315
98532	91972	39800	45670	20510	10451
92012	59826	35456	79289	91483	29754
45652	98653	45863	36963	15326	78952
45678	10100	91251	37041	13712	14672

- a. THHTHHHTHHHH
- b. THHTHHHTHTHT
- c. THHTHHHTHTTH
- d. THHTHHHHHTHH
- e. THHTHHHTHTHH

ANSWER: e

POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: True

LEARNING OBJECTIVES: 13.7 - Explain why children who have special health conditions receive more intensive nutrition services in schools and health care settings than other children do.

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9. Identify the sampling technique used in the following information.

An important part of employee compensation is a benefits package that might include health insurance, life insurance, child care, vacation days, retirement plan, parental leave, bonuses, etc. Suppose you want to conduct a survey of benefits packages available in private businesses in Hawaii. You want a sample size of 100. Sampling technique used to get the sample size of 100 is described below.

Group the businesses according to type: medical, shipping, retail, manufacturing, financial, construction, restaurant, hotel, tourism, other. Then select a random sample of 10 businesses from each sample type.

- a. Systematic sample
- b. Convenience sample
- c. Stratified sample
- d. Cluster sample
- e. Simple random sample

ANSWER: c
POINTS: 1
DIFFICULTY: Medium
QUESTION TYPE: Multi-Mode (Multiple choice)
HAS VARIABLES: True

LEARNING OBJECTIVES: 13.7 - Explain why children who have special health conditions receive more intensive nutrition services in schools and health care settings than other children do.

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10. Find the technique for gathering data in the study below.

The Colorado Division of Wildlife imposed special fishing regulations on the Deckers section of the South Platte River. All trout under 15 inches had to be released. A study of trout before and after the regulations went into effect showed that the average length of trout increased by 4.2 inches after the new regulations.

- a. observational study
- b. experiment
- c. census
- d. sampling
- e. none of these choices

ANSWER: b
POINTS: 1
DIFFICULTY: Medium
QUESTION TYPE: Multi-Mode (Multiple choice)
HAS VARIABLES: True
LEARNING OBJECTIVES: 13.8 - Identify the technique for gathering data
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11. Find the technique for gathering data in the study below.

An analysis of a sample of 31,000 patients from New York hospitals suggests that the poor and the elderly sue for malpractice at one-fifth the rate of wealthier patients (Journal of the Medical Association).

- a. census
- b. sampling
- c. simulation
- d. experiment
- e. none of these choices

ANSWER: b

POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: True

LEARNING OBJECTIVES: 13.8 - Identify the technique for gathering data

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