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	/test-bank-functions-modeling-change-a-preparation-for-calculus-6e-co		
Ι.	is a process for producing knowledge methodically and logically.		
	A. Universalism		
	B. Science		
	C. Relativism		
	D. Morality		
	E. Parsimony		
2.	Ideally, science		
	A. Is correct most of the time		
	B. Tells us what we expected to find		

- 3. Which of the following is not an important feature of science?
 - A. Reproducibility

C. Uses new technologyD. Is orderly and methodical

- B. Parsimony
- C. Empiricism
- D. Positive proof
- E. All are important
- 4. Generally, distinguished scientists
 - A. Always agree if they really are expert scientists
 - B. May have different interpretations of the same evidence
 - C. Never disagree once a theory is established

E. Proves that our hypotheses are correct

- D. Believe each other and support each other in their work
- E. Always disagree so they can prove theories
- 5. Proof in science is always
 - A. Firmly established
 - B. Beyond question
 - C. An impossible goal
 - D. Changing very quickly
 - E. Open to question or new evidence
- 6. The statement, "Since every insect I have examined so far has six legs, I conclude that all insects must have six legs." is an example of
 - A. Inductive reasoning
 - B. Deductive reasoning
 - C. Hypothesis testing
 - D. Reductive reasoning
 - E. Parsimony
- 7. Of the following statements and questions, which is the best example of deductive reasoning?
 - A. If all insects have six legs, then butterflies have six legs
 - B. In repeated tosses of a coin, there is a 50/50 chance of each toss resulting in a "head."
 - C. How many times will the toss of coins turn "heads-up" if 100 people each toss a coin?
 - D. Since every insect I have examined so far has six legs, I conclude that all insects must have six legs
 - E. All of these are examples of deductive reasoning

8.	Although your sister is not a scientist, she says that she uses scientific techniques in her everyday life. You do not believe her but she insists it is true. Which of the following examples could she use to best persuade you? A. When she cooks she measures ingredients and puts them together to form something else (e.g., a cake)
	B. When she drives in her car she hypothesizes about things (e.g., when the red light will turn green) C. She put some tomatoes in the sun and some in the shade to see if the sun causes them to ripen faster D. She buys a brand of toothpaste based on statistical data (four out of five dentists recommend it) E. All of these are examples of using scientific techniques in her everyday life
9.	Experiments in which conditions are deliberately altered and all other variables are held constant are known as experiments. A. Manipulative B. Natural C. Hypothetical D. Probability E. Double-blind
10.	Double-blind studies are especially useful in A. Genetic experiments B. Health studies C. Statistical analysis D. Opinion surveys E. Double-blind studies are not useful in any situation
11.	In experimentation, dependent variables are also known as variables. A. Conventional B. Blind C. Response D. Model E. Distribution
12.	allow scientists to gather information about complicated and interrelated environmental systems. A. Charts B. Graphs C. Models D. Figures E. Paradigm shifts
13.	Networks of interactions among interdependent factors are known as A. Science B. Ecology C. Systems D. Processes E. Negative feedback loops
14.	The damage to an ecosystem caused by a hurricane or flood can be referred to as A. An open system B. An emergent property C. Equilibrium in nature D. A disturbance E. Negative feedback loop
15.	An important value of science is that it provides the methodology to prove that a theory is correct. True False

16. Science progress mainly happens when a scientist working in isolation discovers something very important.

True False

17. Paradigm shifts occur when ethical considerations are incorporated into scientific theory.

ch02 Key

- 1. ______ is a process for producing knowledge methodically and logically.
 - A. Universalism
 - **B.** Science
 - C. Relativism
 - D. Morality
 - E. Parsimony

Blooms: 1. Remember Cunningham - Chapter 02 #1 Section: 02.01 Topic: Science

- 2. Ideally, science
 - A. Is correct most of the time
 - B. Tells us what we expected to find
 - C. Uses new technology
 - **D.** Is orderly and methodical
 - E. Proves that our hypotheses are correct

Blooms: 1. Remember Cunningham - Chapter 02 #2 Section: 02.01 Topic: Science

- 3. Which of the following is not an important feature of science?
 - A. Reproducibility
 - B. Parsimony
 - C. Empiricism
 - **D.** Positive proof
 - E. All are important

Blooms: 2. Understand Cunningham - Chapter 02 #3 Section: 02.01

Section: 02. Topic: Science

- 4. Generally, distinguished scientists
 - A. Always agree if they really are expert scientists
 - **B.** May have different interpretations of the same evidence
 - C. Never disagree once a theory is established
 - D. Believe each other and support each other in their work
 - E. Always disagree so they can prove theories

Blooms: 2. Understand Cunningham - Chapter 02 #4 Section: 02.01 Topic: Science

- 5. Proof in science is always
 - A. Firmly established
 - B. Beyond question
 - C. An impossible goal
 - D. Changing very quickly
 - **E.** Open to question or new evidence

Blooms: 2. Understand Cunningham - Chapter 02 #5 Section: 02.01 Topic: Science

6.	The statement, "Since every insect I have examined so far has six legs, I conclude that all insects must have six legs." is an example of A. Inductive reasoning B. Deductive reasoning C. Hypothesis testing D. Reductive reasoning E. Parsimony
7.	Blooms: 2. Understand Cunningham - Chapter 02 #6 Section: 02.01 Topic: Science Of the following statements and questions, which is the best example of deductive reasoning?
7.	A. If all insects have six legs, then butterflies have six legs B. In repeated tosses of a coin, there is a 50/50 chance of each toss resulting in a "head." C. How many times will the toss of coins turn "heads-up" if 100 people each toss a coin? D. Since every insect I have examined so far has six legs, I conclude that all insects must have six legs E. All of these are examples of deductive reasoning
	Blooms: 2. Understand Cunningham - Chapter 02 #7
8.	Although your sister is not a scientist, she says that she uses scientific techniques in her everyday life. You do not believe her but she insists it is true. Which of the following examples could she use to best persuade you? A. When she cooks she measures ingredients and puts them together to form something else (e.g., a cake) B. When she drives in her car she hypothesizes about things (e.g., when the red light will turn green) C. She put some tomatoes in the sun and some in the shade to see if the sun causes them to ripen faster D. She buys a brand of toothpaste based on statistical data (four out of five dentists recommend it) E. All of these are examples of using scientific techniques in her everyday life
	Blooms: 2. Understand Cunningham - Chapter 02 #8 Section: 02.01 Topic: Science
9.	Experiments in which conditions are deliberately altered and all other variables are held constant are known as experiments. A. Manipulative B. Natural C. Hypothetical D. Probability E. Double-blind Blooms: 1. Remember Cunningham - Chapter 02 #9 Section: 02.01
10.	Double-blind studies are especially useful in A. Genetic experiments B. Health studies C. Statistical analysis D. Opinion surveys E. Double-blind studies are not useful in any situation

Blooms: 1. Remember Cunningham - Chapter 02 #10 Section: 02.01 Topic: Science

11.	In experimentation, dependent variables are also known asva. A. Conventional B. Blind C. Response D. Model E. Distribution	ariables.
12.	allow scientists to gather information about complicated and int systems. A. Charts B. Graphs C. Models D. Figures E. Paradigm shifts	Blooms: 1. Remember Cunningham - Chapter 02 #11 Section: 02.01 Topic: Science terrelated environmental
13.	Networks of interactions among interdependent factors are known as A. Science B. Ecology C. Systems D. Processes E. Negative feedback loops	Blooms: 2. Understand Cunningham - Chapter 02 #12 Section: 02.01 Topic: Science
14.	The damage to an ecosystem caused by a hurricane or flood can be referred to A. An open system B. An emergent property C. Equilibrium in nature D. A disturbance E. Negative feedback loop	Blooms: 1. Remember Cunningham - Chapter 02 #13 Section: 02.02 Topic: Science
15.	An important value of science is that it provides the methodology to prove that FALSE	Blooms: 1. Remember Cunningham - Chapter 02 #14 Section: 02.02 Topic: Science t a theory is correct.
16.	Science progress mainly happens when a scientist working in isolation discovering in interest of the scientist working in isolation discovering the scientist working in the scientist working the	Blooms: 2. Understand Cunningham - Chapter 02 #15 Section: 02.01 Topic: Science ers something very
17.	Paradigm shifts occur when ethical considerations are incorporated into scient FALSE	Blooms: 1. Remember Cunningham - Chapter 02 #16 Section: 02.03 Topic: Science ific theory.

Blooms: 1. Remember Cunningham - Chapter 02 #17 Section: 02.03 Topic: Science

ch02 Summary

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