1. The decision-making themes covered in *Business Analytics: Data Analysis & Decision Making* include which of the following?

- a. optimization techniques b. decision analysis with uncertainty
- c. structured sensitivity analysis d. all of these choices

ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1-2 Overview of the Book

OTHER: BUSPROG: Analytic | DISC: Decision Making

2. Which statement is *not* true?

С

d

d

- a. Dealing with uncertainty includes measuring uncertainty.
- b. Dealing with uncertainty includes modeling uncertainty explicitly into the analysis.
- c. Dealing with uncertainty includes eliminating uncertainty by using the normal probability distribution.
- d. Dealing with uncertainty requires a basic understanding of probability.

ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Knowledge

- TOPICS: A-Head: 1.2 Overview of the Book
- OTHER: BUSPROG: Analytic | DISC: Decision Making
- 3. What is <u>not</u> one of the important themes of your *Business Analytics: Data Analysis & Decision Making* text? a. data analysis b. dealing with uncertainty

c. decision making d. data mining

ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1.2 Overview of the Book

- OTHER: BUSPROG: Analytic | DISC: Decision Making
- 4. Data analysis includes:

d

1

- a. data description b. data inference
- c. the search for relationships in data d. all of these choices

ANSWER:

POINTS:

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1.2 Overview of the Book

- OTHER: BUSPROG: Analytic | DISC: Decision Making
- 5. Which of the following is *not* one of the steps in the modeling process?
 - a. Select the scale for the model.
 - b. Collect and summarize data.
 - c. Verify the model.
 - d. Present the results.
 - e. Implement the model and update it through time.

ANSWER:	а	
POINTS:	1	
DIFFICULTY:	Easy Bloom's:	Comprehension
TOPICS:	A-Head: 1.2 Ov	verview of the Book
OTHER:	BUSPROG: An	alytic DISC: Decision Making
 6. Which of the following would <u>not</u> be included under data analysis? a. measuring uncertainty b. data description c. data inference d. search for relationships 		
ANSWER:	а	
POINTS:	1	
DIFFICULTY:	Easy Bloom's:	Comprehension
TOPICS:	A-Head: 1.2 Ov	verview of the Book
OTHER:	BUSPROG: An	alytic DISC: Decision Making

- 7. The decision making process includes:
 - a. optimization techniques for problems with no uncertainty
 - b. decision analysis for problems with uncertainty
 - c. sensitivity analysis
 - d. all of these choices

d

ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1.2 Overview of the Book

OTHER: BUSPROG: Analytic | DISC: Decision Making

- 8. Which tool is an Excel[®] add-in for performing what-if analyses?
 - a. PrecisionTree
 - b. TopRank
 - c. Solver
 - d. @Risk
 - e. StatTools

ANSWER: b

POINTS: 1

DIFFICULTY: Easy | Bloom's: Comprehension

- TOPICS: A-Head: 1.2 Overview of the Book
- OTHER: BUSPROG: Analytic | DISC: Decision Making
- 9. Which of the following statements are true?
 - a. Three important themes run through the book: data analysis, decision making, and uncertainty.
 - b. Data analysis includes data description, data inference, and the searching for relationships in data
 - c. Decision making includes optimization techniques for problems with no uncertainty, decision analysis for problems with uncertainty, and structured sensitivity analysis.
 - d. Dealing with uncertainty includes measuring uncertainty and modeling uncertainty explicitly into the analysis.

e. All of these statements are true.

ANSWER:ePOINTS:1DIFFICULTY:Easy | Bloom's: KnowledgeTOPICS:A-Head: 1.2 Overview of the BookOTHER:BUSPROG: Analytic | DISC: Decision Making

10. Data analysis includes data *description*, data *inference*, and the search for *relationships* in data.

a. True	
b. False	
ANSWER:	True
POINTS:	1
DIFFICULTY:	Easy Bloom's: Knowledge
TOPICS:	A-Head: 1.2 Overview of the Book
OTHER:	BUSPROG: Analytic DISC: Decision Making

11. Decision-making includes *optimization techniques* for problems with certainty, *decision analysis* for problems with certainty, and structured *sensitivity analysis*.

a. True b. False ANSWER: False POINTS: 1 DIFFICULTY: Easy | Bloom's: Knowledge TOPICS: A-Head: 1.2 Overview of the Book OTHER: BUSPROG: Analytic | DISC: Decision Making

12.

A relatively new aspect of business analytics is big data, which typically implies the analysis of the very large data sets that companies currently encounter.

a. True b. False

D. FalseANSWER:FalsePOINTS:1DIFFICULTY:Easy | Bloom's: KnowledgeTOPICS:A-Head: 1.2 Overview of the BookOTHER:BUSPROG: Analytic | DISC: Decision Making

13. Three important themes run through the *Business Analytics: Data Analysis & Decision Making* text: data analysis, decision-making, and dealing with uncertainty.

a. True b. False ANSWER: True POINTS: 1 DIFFICULTY: Easy | Bloom's: Knowledge TOPICS: A-Head: 1.2 Overview of the Book

OTHER: BUSPROG: Analytic | DISC: Decision Making

14. Spreadsheet simulations cannot be performed entirely with the built-in or add-in tools in Excel[®], so spreadsheet simulations are still one of the most difficult quantitative models to implement in the business world.

a. True	
b. False	
ANSWER:	False
POINTS:	1
DIFFICULTY:	Easy Bloom's: Comprehension
TOPICS:	A-Head: 1.2 Overview of the Book
OTHER:	BUSPROG: Analytic DISC: Data Methods

15. Although it is relatively easy to collect data, it can be more challenging to understand what the data mean. a. True

b. False

ANSWER:TruePOINTS:1DIFFICULTY:Easy | Bloom's: ComprehensionTOPICS:A-Head: 1.2 Overview of the BookOTHER:BUSPROG: Analytic | DISC: Data Methods

16. When we use simulation models to help make decisions, we do not deal with uncertainty at all, since we often must make inferences from the simulated data.

False
1
Easy Bloom's: Comprehension
A-Head: 1.2 Overview of the Book
BUSPROG: Analytic DISC: Decision Making

17. We must deal with uncertainty when we make inferences from data and search for relationships in data, or when we use decision trees to help make decisions.

a. True	
b. False	
ANSWER:	True
POINTS:	1
DIFFICULTY:	Easy Bloom's: Comprehension
TOPICS:	A-Head: 1.2 Overview of the Book
OTHER:	BUSPROG: Analytic DISC: Decision Making

18. @Risk is an Excel[®] add-in that can be used to run replications of a simulation, keep track of outputs, create useful charts, and perform sensitivity analyses.

a. True

b. False

True
1
Easy Bloom's: Comprehension
A-Head: 1.2 Overview of the Book
BUSPROG: Analytic DISC: Data Methods

19. Which of the following statements is false?

- a. The modeling process discussed in your text is a five-step process.
- b. Dealing with uncertainty requires a basic understanding of probability.
- c. Uncertainty is a key aspect of most business problems.
- d. Data description and data inference are data analysis themes.

ANSWER:

POINTS:

DIFFICULTY: Easy | Bloom's Knowledge

а

1

TOPICS: A-Head: 1.2 Overview of the Book | 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making

20. Which of the following statements are false?

- a. Decision-making includes *optimization techniques* for problems with certainty, *decision analysis* for problems with certainty, and structured *sensitivity analysis*.
- b. Graphical models can be very helpful for simple problems. For complex problems, however, graphical models usually fail to show the important elements of a problem and how they are related.
- c. Dealing with uncertainty includes measuring uncertainty and modeling uncertainty explicitly into the analysis.
- d. All of these statements are false.

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ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Comprehension

TOPICS: A-Head: 1.2 Overview of the Book | 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making

- 21. Which of the following statements are true?
 - a. A fairly recent alternative to algebraic modeling is spreadsheet modeling. Instead of relating various quantities with algebraic equations and inequalities, we relate them in a spreadsheet with cell formulas.
 - b. Data are usually meaningless until they are analyzed for trends, patterns, relationships, and other useful information
 - c. Algebraic models, by means of algebraic equations and inequalities, specify a set of relationships in a very precise way. Their main drawback is that they require an ability to work with abstract mathematical symbols.
 - d. When we make inferences from data and search for relationships in data, or when we use decision trees to help make decisions, we must deal with uncertainty.
 - e. All of these statements are true.

е

1

ANSWER:

POINTS:

DIFFICULTY: Easy | Bloom's: Comprehension

TOPICS: A-Head: 1.2 Overview of the Book | 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making

- 22. What is not one of the types of models described in your Business Analytics: Data Analysis & Decision Making text?
 - a. algebraic model b. spreadsheet model
 - c. scale model d. graphical model

ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1.3 Modeling and Models

OTHER: BUSPROG: Analytic | DISC: Decision Making

- 23. The modeling process discussed in your Business Analytics: Data Analysis & Decision Making text is a:
 - a. seven-step process

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- b. six-step process
- c. five-step process
- d. four-step process
- e. three-step process

а

ANSWER:

POINTS: 1

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making

24. Which is an Excel[®] add-in for simulation?

a. PrecisionTree

1

1

- b. TopRank
- c. Solver
- d. @Risk
- e. StatTools

ANSWER: d

POINTS:

DIFFICULTY: Easy | Bloom's: Comprehension

TOPICS: A-Head: 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making

25. The authors of the *Business Analytics: Data Analysis & Decision Making* text describe three types of models: graphical models, algebraic models, and spreadsheet models.

a. True

b. False

ANSWER: True

POINTS:

DIFFICULTY: Easy | Bloom's: Knowledge

TOPICS: A-Head: 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making

26. Graphical models are the least intuitive type of model.

False
1
Easy Bloom's: Comprehension
A-Head: 1.3 Models and Modeling
BUSPROG: Analytic DISC: Decision Making

27. The overall modeling process typically done in the business world always require seven steps: define the problem, collect and summarize data, formulate a model, verify the model, select one or more suitable decisions, present the results to the organization, and finally implement the model and update it through time.

a. True	
b. False	
ANSWER:	False
POINTS:	1
DIFFICULTY:	Easy Bloom's: Comprehension
TOPICS:	A-Head: 1.3 Models and Modeling
OTHER:	BUSPROG: Analytic DISC: Decision Making

28. Algebraic models, by means of algebraic equations and inequalities, specify a set of relationships in a very precise way, but they require an ability to work with abstract mathematical symbols.

a. True	
b. False	
ANSWER:	True
POINTS:	1
DIFFICULTY:	Easy Bloom's: Knowledge
TOPICS:	A-Head: 1.3 Models and Modeling
OTHER:	BUSPROG: Analytic DISC: Decision Making

29. A fairly recent alternative to algebraic modeling is spreadsheet modeling, which, instead of relating various quantities with algebraic equations and inequalities, relates them in a spreadsheet with cell formulas.

a. True	
b. False	
ANSWER:	True
POINTS:	1
DIFFICULTY:	Easy Bloom's: Comprehension
TOPICS:	A-Head: 1.3 Models and Modeling
OTHER:	BUSPROG: Analytic DISC: Decision Making

30. Graphical models are the most quantitative type of model.

a. True

b. False

ANSWER:FalsePOINTS:1DIFFICULTY:Easy | Bloom's: ComprehensionTOPICS:A-Head: 1.3 Models and Modeling

OTHER: BUSPROG: Analytic | DISC: Decision Making