# Test Design: Selected-Response

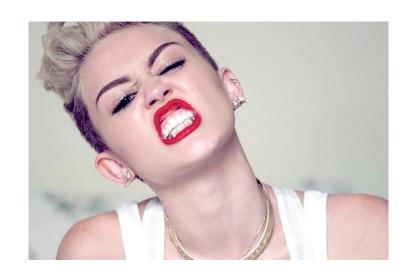
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# Question 1

Miley Cryrus isn't not Hannah Montana.

A. True

B. False



#### Question 2

The *Hunger Games* movie, *Catching Fire* is an

- A. Epilogue
- B. Prequel
- C. Sequel
- D. Reboot



# Selected Response

+ Measure student knowledge, comprehension, and application.

+ Students do not need to come up with an answer on their own.

+ Given 2 or more options to choose from.



# Pros/Cons of Selected-Response

#### **Pros**

- + Information is gathered about areas of strength and challenge
- Student's errors and misunderstanding may be diagnosed
- + Scores are easily summarized
- + Test items are easy to grade
- + Practice for standardized tests
- Data can be gathered about each question

#### Cons

- + Student insight into answer development is lacking
- + Scores may be determined by good guesses
- + Scores are determined by correct answers chosen from a context in which the correct answer must be a part of the possible selections

# Types of Selected Response

+ Multiple choice

+ Binary Choice

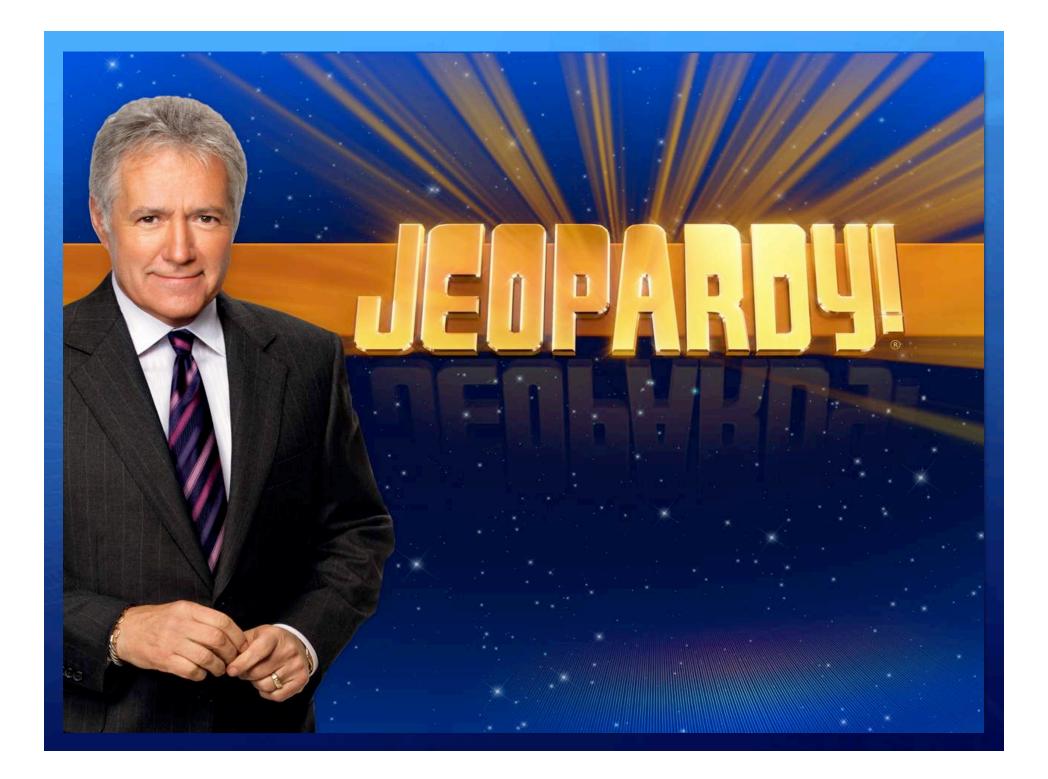
+ Matching

+ Multiple-Binary Choice



# 5 General Item Writing Guidelines

- + Thou shall not provide opaque directions to students regarding how to respond to your assessment instruments
- + Thou shall not employ ambiguous statements in you assessment items
- Thou shall not provide students with unintentional clues regarding appropriate responses
- + Thou shall not employ complex syntax in your assessment items
- + Thou shall not use vocabulary that is more advanced than required



# Round One

100 points

#### Question 1

True or False? Ambiguous statements should be used when writing a test item.

A.True

B. False

#### Round One

#### 100 points

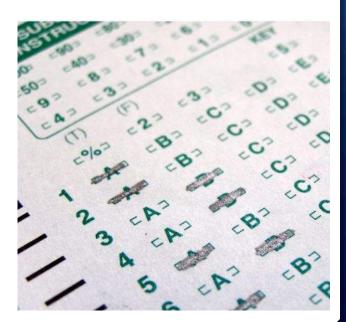
#### Question 2

Which of the following is a con of selected response?

- A. Student insight into answer development is lacking
- B. Students enjoy selected response
- C. Students are too lazy to read the question
- D. Scores are easily summarized

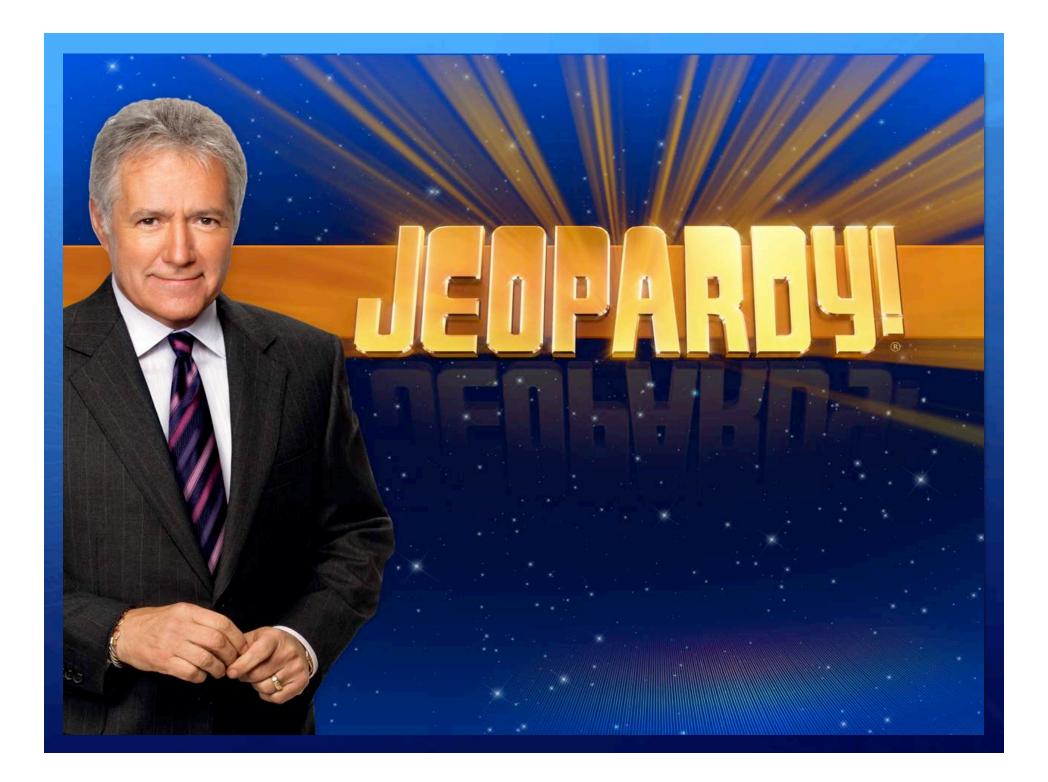
# What is multiple choice?

+ A test item that asks a question and gives two or more answers to that question. The job of the student is to pick the best answer possible.



# Item Writing Guidelines for Multiple Choice

- + The stem should consist of a self-contained question or problem.
- + Avoid negatively stated stems.
- + Do not let the left of alternatives supply unintended clues.
- + Randomly assign correct answers to alternative positions.
- + Never use "all-of-the-above" alternatives, but do use "none-of-the-above" alternatives to increase item difficulty.



# Round Two

#### 100 points

#### Question 1

The potential answer options are?

- A. Item alternatives
- B. Item distractors
- C. Item indicators
- D.Item helpers

#### Round Two

#### 100 points

#### Question 2

Does the following test item follow the multiple-choice item writing guidelines?

- A. Yes
- B. No

Which of the following is not a type of fruit?

- A. Apricot
- B. Strawberry
- C. Celery
- D. All of the above

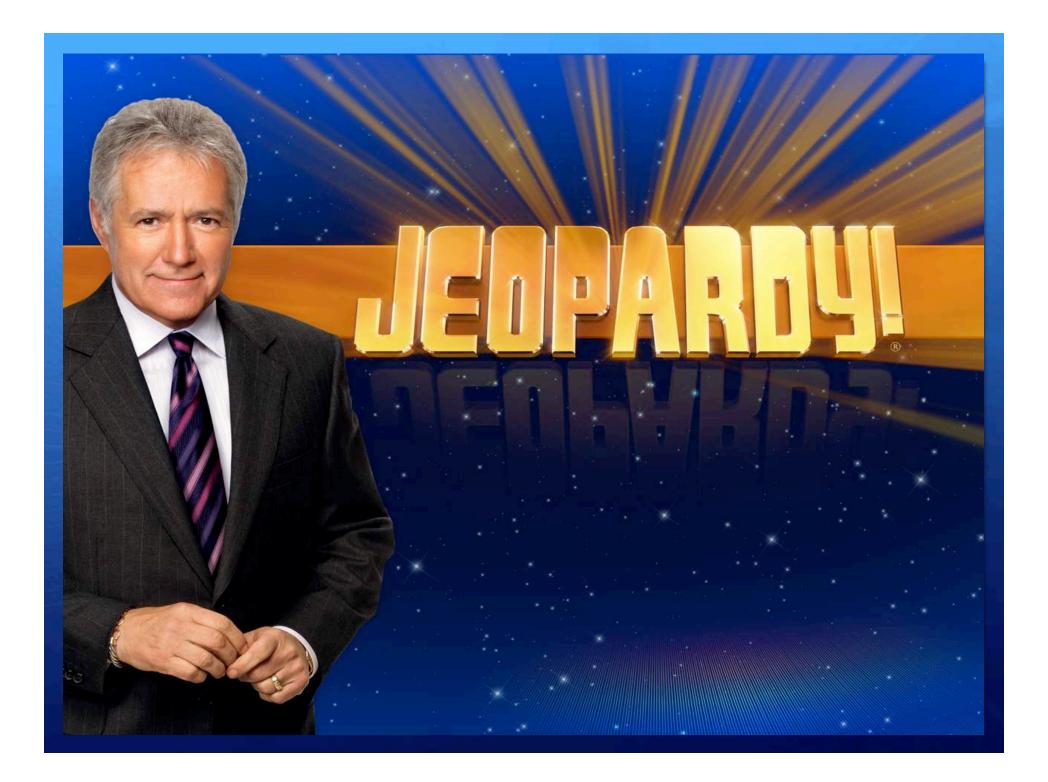
# What is Binary Choice?

- + Test items that are a statement and answered with:
  - + True/False
  - + Yes/No
  - + Right/Wrong



# Item Writing Guidelines for Binary Choice

- Phrase your items so that if the student glances over the question, they will get the wrong answer
- Don't use negative statements, and completely avoid double negatives
- Include only one concept in each statement
- Have an equal number of items for the two categories being tested
- Keep the length of each item similar



#### Round Three

100 points

Question 1

Does this question follow the binary-choice item writing guidelines?

A.Yes

**B.No** 

True or False? John likes to eat pizza on Wednesday nights and Jessica looks ridiculous.

# Round Three

#### 100 points

#### Question 2

True or False? Rarely use negative statements, and never use double negatives.

- A. True
- B. False

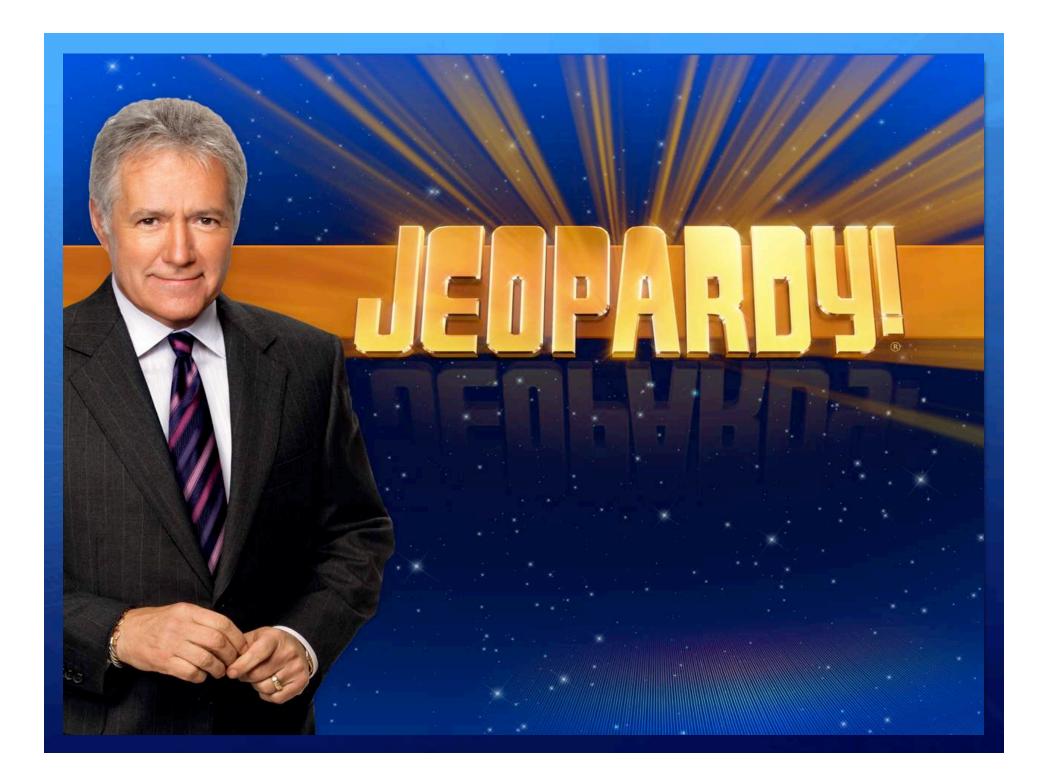
# What is Matching?

+ Matching consists of two parallel lists of matching words or phrases requiring the student to match entries on one list with appropriate entries on the second list.



# Item Writing Guidelines For Matching

- + Employ homogenous lists.
- + Use relatively brief lists, lacing the shorter words or phrases at the right.
- + Employ more responses than premises
- + Order the responses logically
- + Describe the basis for matching and the number of times responses may be used.
- + Place all premises and responses for an item on a single page.



# Round Four

#### 100 points

#### Question 1

True or False? It is important to order responses logically.

A.True

B. False

# Round Four

100 points

#### Question 2

Does the following test item follow the guidelines for matching?

A. Yes

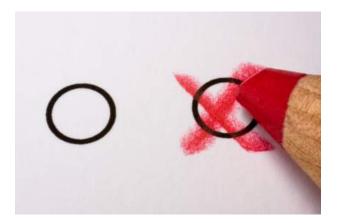
B. No

On the line next to each children's book in column A print the letter of the animal or insect in column B that is a main character in that book. Each animal or insect in column B can be used only once.

Column A		Column B
1	Charlotte's Web	A. Bear
2	Winnie the Pooh	B. Horse
<i>3.</i> _	Black Beauty	C. Pig

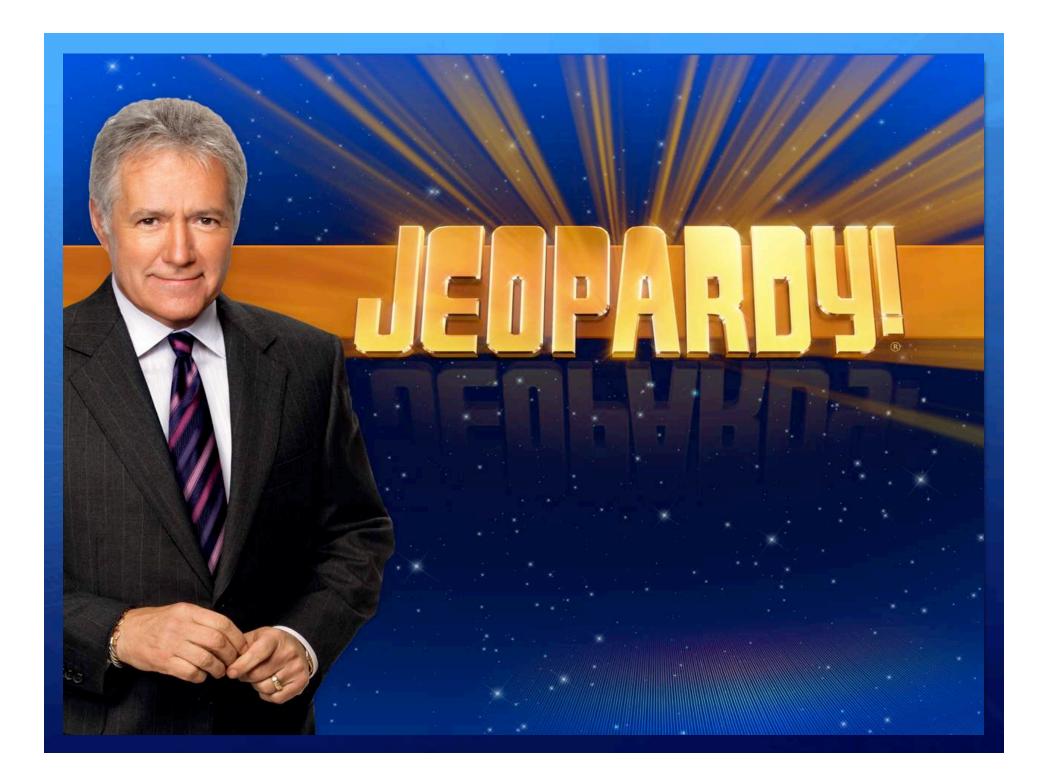
# What is Multiple-Binary Choice?

+ This type of selected response contains many questions about a certain set of data. From the data the student will answer questions with a true/false answer.



# Item writing guidelines for Multiple-Binary choice

- + Separate item clusters vividly from one another.
- + Make certain that each item meshes well with the cluster's stimulus material.
- + The guidelines for binary choice are also necessary for this type of item.



#### Round Five

100 points

#### Question 1

True or False? Multiple-Binary choice questions must also follow binary-choice item writing guidelines.

A.True

**B.False** 

#### Round Five

#### 100 points

#### Question 2

Is the following test item follow the item writing guidelines for multiple-binary choice?

- A. Yes
- B. No

Answer the following with true or false statements.

- 1. The median is 4.
- 2. The mode is 5.
- 3. The mean is 8.

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